MISSION

BX6706

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

OXCART Mission BX 6706

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JUSTIFICATION

This mission is in response to the USIB requirement for high resolution photographic coverage of priority targets in North Vietnam. Specifically, the OXCART aircraft is to cover those areas of North Vietnam which because of surface-to-air missile defenses cannot be covered adequately by other means. The 303 Committee has approved this mission.

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TARGET DATA

There are 48 COMOR targets in North Vietnam which are listed below. Apart from coverage of these targets, OXCART photography is to be used specifically to locate and identify surface-to-surface missiles in North Vietnam if and when they should be introduced.

	* 1.	[redacted]	Cac Ba Coastal Def. Site
	* 2.		Haiphong/Cat Bi A/F
	* 3.		Haiphong/Kien An A/F
	* 4.		Hanoi/Bac Mai A/F
	* 5.		Hanoi/Gia Lam A/F
	* 6.		Phuc Yen A/F
#	* 7.		Lang Son A/F
	* 8.		Kep A/F
	9.		Yen Bai Suspect A/F U/C
	10.		Hoa Lac A/F U/C
	11.		Bai Thuong A/F
	*12.		Haiphong Port Complex
#	*13.		Cam Pha Port Facilities
#	*14.		Hon Gay Port Facilities
#	*15.		Ha Tou Naval Support Facility
	16.		Vinh/Ben Thuy Port Facilities
	17.		Thanh Hoa Poss Bio Research Installations
	18.		Ha Giang Military Installation
	19.		Van Hai Army Barracks
#	*20.		Lang Son Military Complex
#	*21.		Loc Binh Army Supply Depot
	*22.		Thai Nguyen Army Supply Depot North
	23.		Bac Kan Military Area
	*24.		Phu Lang Thuong Military Area
	25.		Hanoi-Lao Cai RR, Segment 2
	26.		Hanoi-Lao Cai RR, Segment 1
	27.		Hanoi-Lao Cai RR, Segment 3
#	*28.		Hanoi-Ping Hsiang RR, Segment 2
#	*29.		Hanoi-Ping Hsiang RR, Segment 1
	*30.		Hanoi-Ping Hsiang RR, Segment 3
	*31.		Hanoi-Lao Cai RR, Segment 4
	*32.		Hanoi-Lao Cai RR, Segment 5
	*33.		Kep to Than Nguyen RR
#	*34.		Dong Dang Complex
	*35.		Phu Lang Thuong Complex

25X1

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25X1

36.	[redacted]	Cao Bang Complex
37.		Lai Chau Complex
# *38.		Lang Son Complex
39.		Mon Cay Complex
# *40.		Tien Yen Complex
41.		Tuyen Quang Complex
*42.		Yen Bai Complex
43.		Dien Bien Phu Complex
44.		Lao Kay Complex
# *45.		Haiphong RR Yards
*46.		Viet Tri RR Yards
*47.		Yen Bien (Hanoi) RR Yards
# *48.		Kep Complex

NOTE: Thirty-five of the above 48 COMOR targets are in the SAM defended area. This mission has been planned to make two passes over the primary target area in order to maximize photo coverage and to cover thirteen of the seventeen COMOR targets not covered in previous BLACK SHIELD missions. This mission should cover a minimum of 31 COMOR targets and a large number of other bonus targets. Some of the COMOR targets not previously covered are located along the strategic SINO/North Vietnamese border area.

* Indicates the COMOR targets this mission should cover.

\# Indicates COMOR targets not covered previously by BLACK SHIELD missions.

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OPERATIONAL DATA

DISTANCE : 5621 N.M.

TIME : 4 + 49

DENIED TIME : 0:21

ENTRY ALTITUDE: 79,200 FT.

SPEED : 3.1 (1787 KTS)

TAKE OFF : 10 p.m. (Washington time) 29 June 1967

VULNERABILITY ESTIMATE

At the present time 204 surface-to-air missile launch positions have been detected in North Vietnam. However, there are only about 28 to 32 active sites on any given day. They are largely concentrated in the Hanoi, Haiphong, Thanh Hoa area. The OXCART aircraft carries ECM equipment which is capable of neutralizing the SAM threat. There are a number of MIG-21 jet interceptors in North Vietnam but they are not capable of intercepting the OXCART aircraft.

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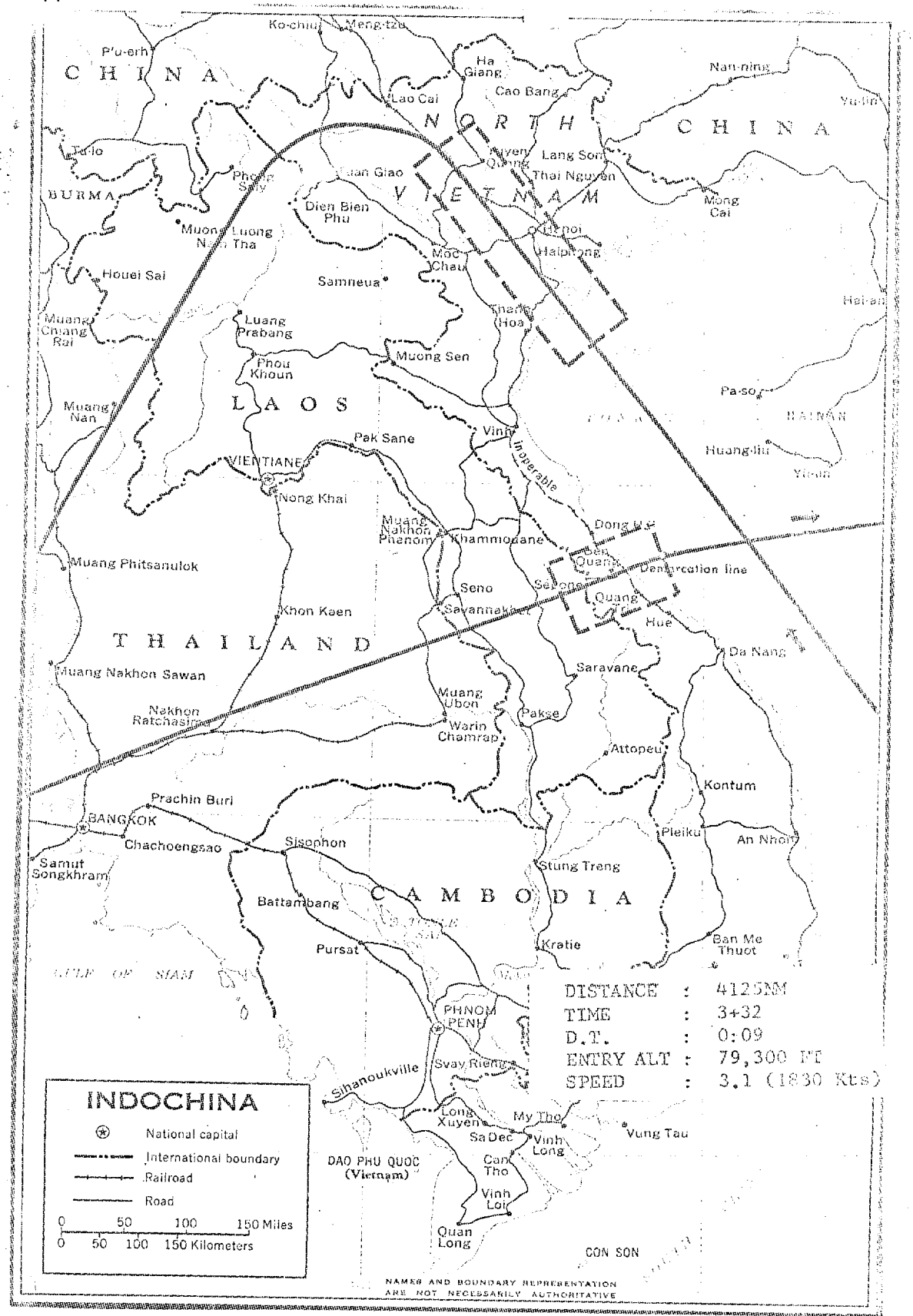

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Sorties	Target	BDA (Pilot Reports)
2	SAM Site 193	Two SHRIKE missiles launched; signal left the air at impact time; possible kill.
16	Thai Nguyen Steel Plant	Heavy damage to coke oven and locomotive repair shop; two AAA sites destroyed.

Armed Reconnaissance Strike Results

	Destroyed	Damaged/ Cratered/Cut	Struck (No Report)
Bridges	4	6	7
Bridge approaches		5	
Ferries		2	3
Ferry approaches		2	
Fords		2	
Ford approaches		2	
Road segments		18	
Railroad yard			1
Railroad segment		1	
Railroad sidings		1	4
Trucks	4	8	35
Truck parks		1	7
WBL craft	4	3	5
AAA		1	19
Barracks areas			4
Buildings/structures	10		
Bunkers		3	2
Gun positions		8	23
Military areas			3
POL storage		1	2
Storage areas		10	11
SAM sites			2
Airfield			1

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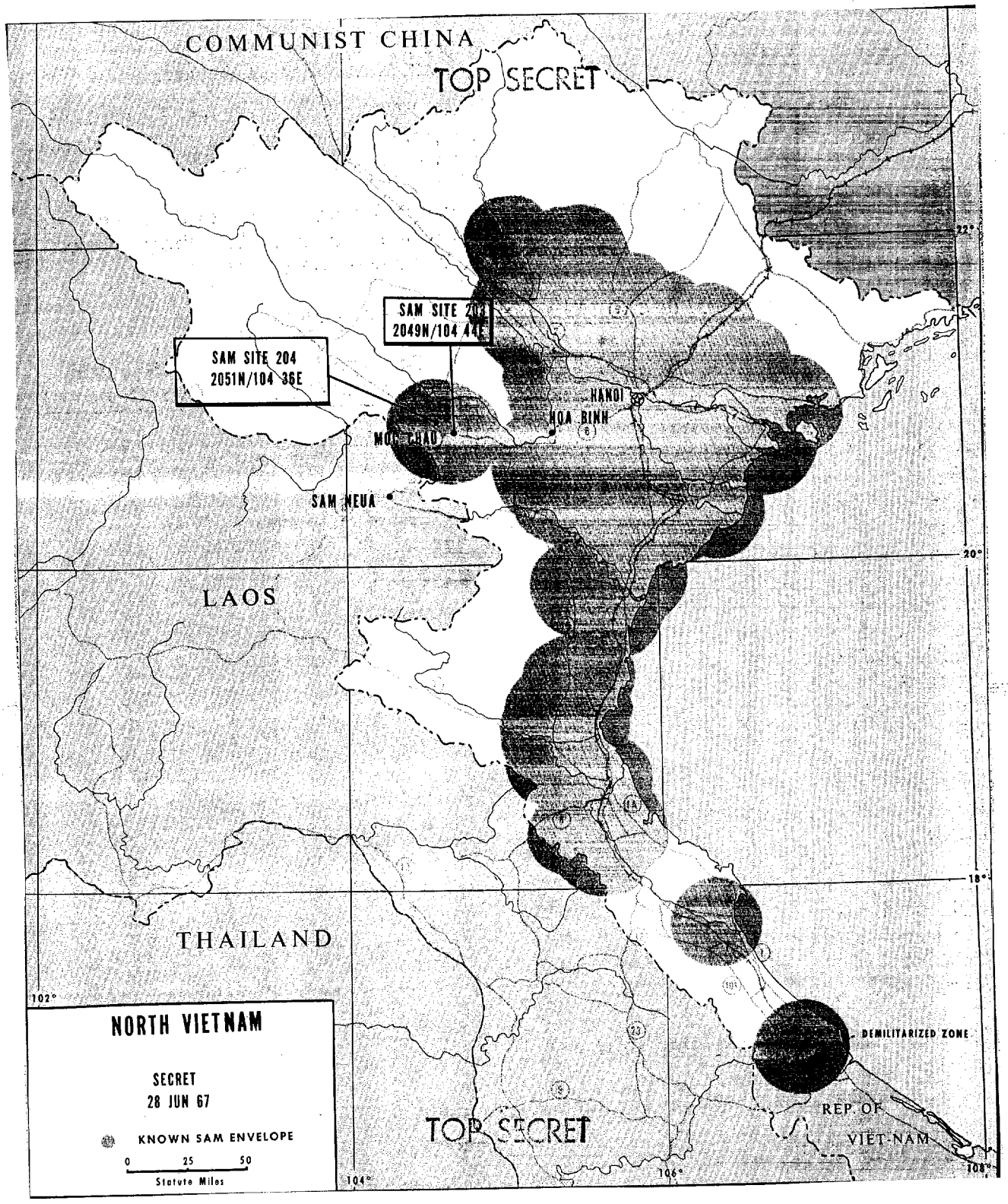

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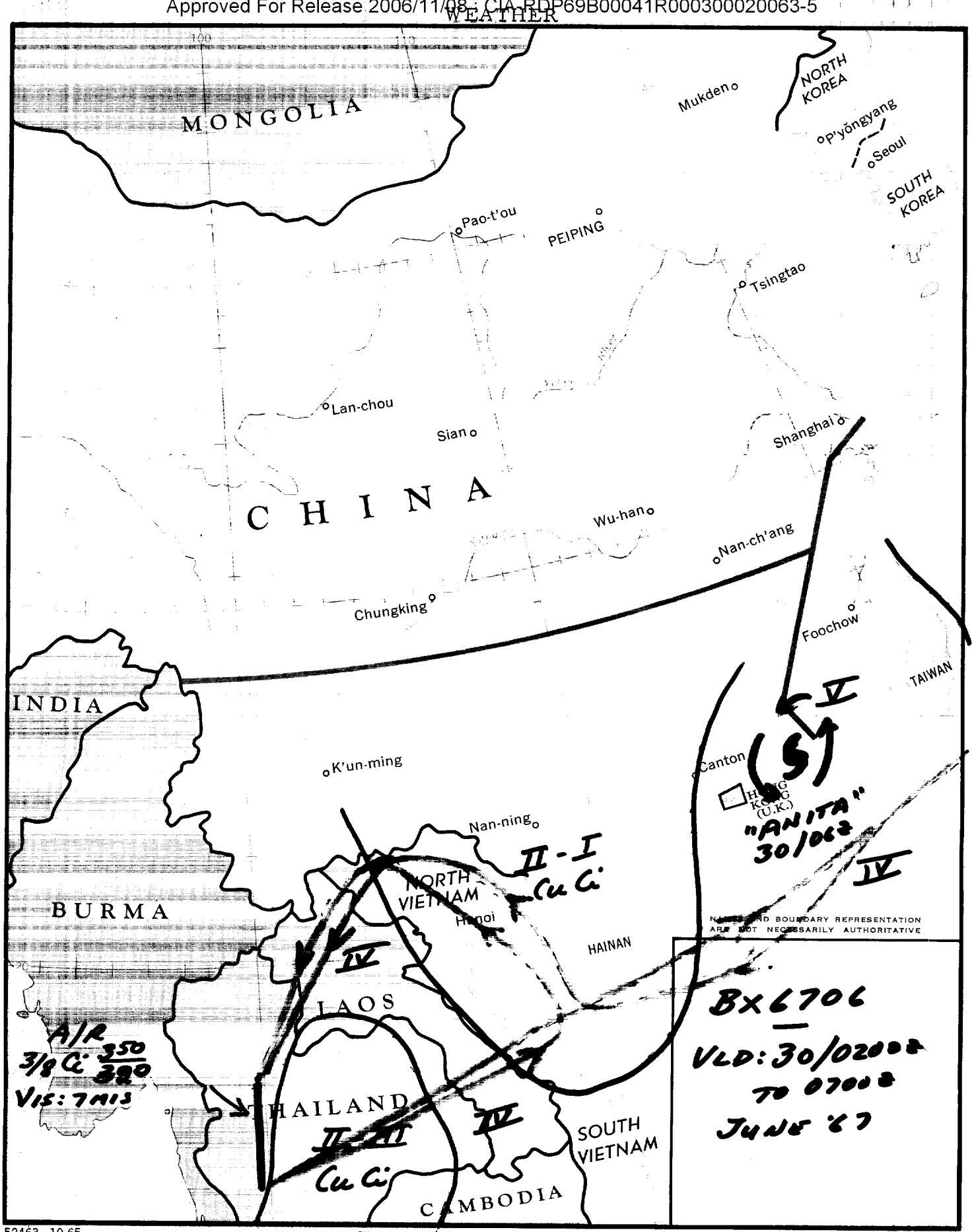

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TOP SECRET
OXCART

The OXCART Mission BX 6706 as planned herein is approved.

[redacted] 25X1

Acting DIRECTOR OF SPECIAL ACTIVITIES

[redacted] 25X1

DEPUTY DIRECTOR FOR SCIENCE AND TECHNOLOGY

[redacted] 25X1

DEPUTY DIRECTOR OF CENTRAL INTELLIGENCE

Richard Helms

DIRECTOR OF CENTRAL INTELLIGENCE

TOP SECRET
OXCART

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START

BX 6706

ROUTE 14

30 JUNE 67

1 OF 10

START

ROUTE

STRIP

14
BX 6706

FS # 10
30 JUNE 67

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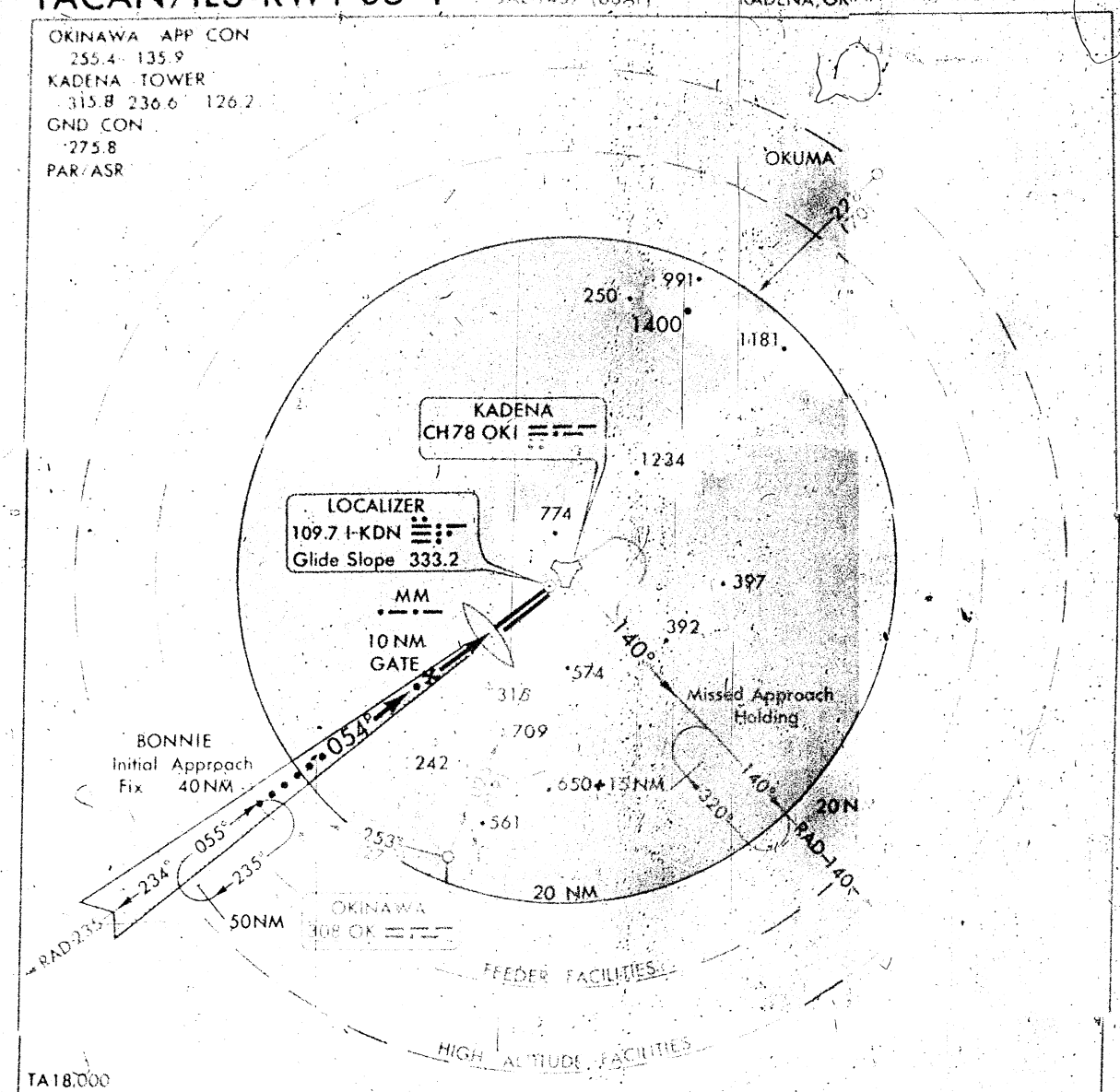
KADENA

TACAN/ILS-RWY 05-1

100
JAL 1457 (USAF)

KADENA AB
KADENA, OKINAWA I., RYUKYU ISLANDS

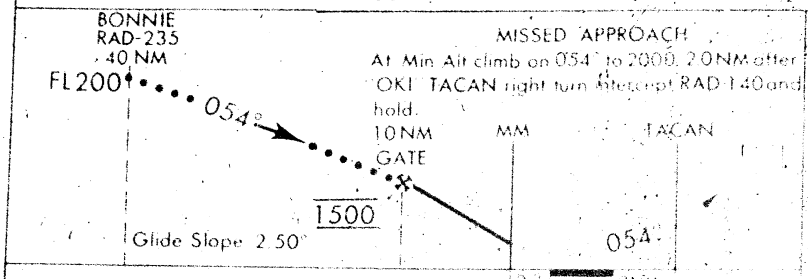
OKINAWA APP CON
255.4 135.9
KADENA TOWER
315.8 236.6 126.2
GND CON
275.8
PAR/ASR



TA 18,000

EMERG SAFE ALT 100 NM 2700

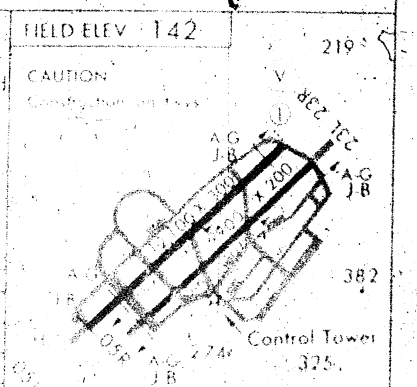
MIN SAFE ALT 25 NM 2600



LANDING MINIMA		
Str-in-ILS	342 MSL	200 ½ or RVR 24
Str-in-TACAN	400 MSL	300-1
✲ Circling	800 MSL	700-1

✲ Circling to East only

FIELD ELEV 142



TACAN/ILS-RWY 05-1

26°21 N-127°46'E

KADENA, OKINAWA I., RYUKYU ISLANDS

KADENA AB

KADENA

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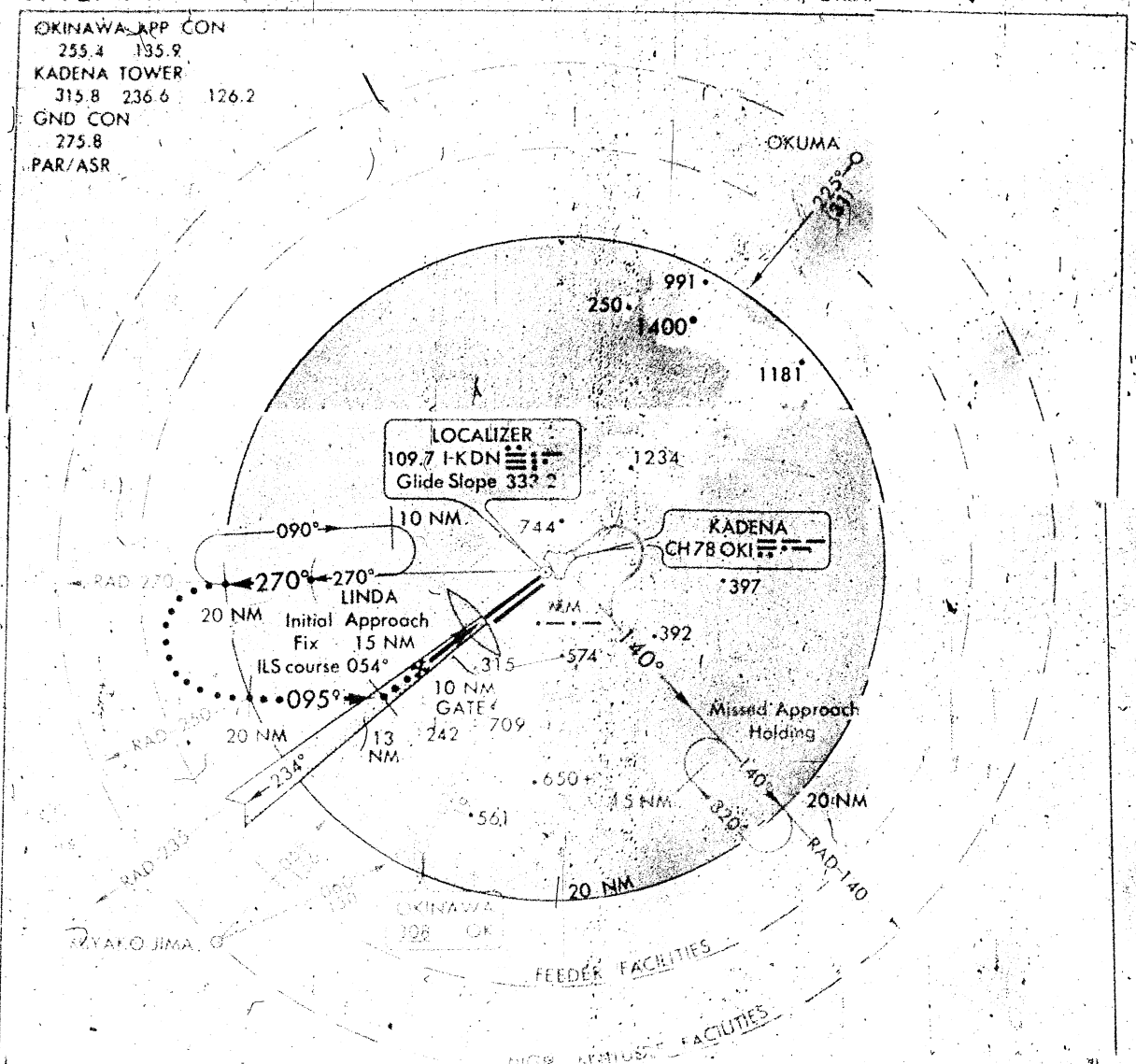
KADENA

TACAN/ILS-RWY 05-2

JAL 1457 (USAF) KADENA, OKINAWA 1, RYUKYU ISLANDS

KADENA AB

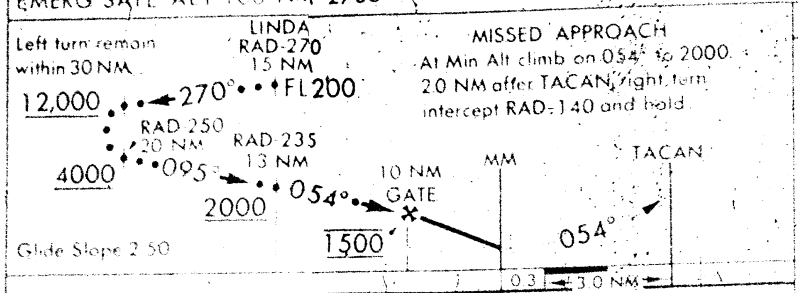
OKINAWA APP CON
255.4 135.9
KADENA TOWER
315.8 236.6 126.2
GND CON
275.8
PAR/ASR



TA 18,000
EMERG SAFE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2600

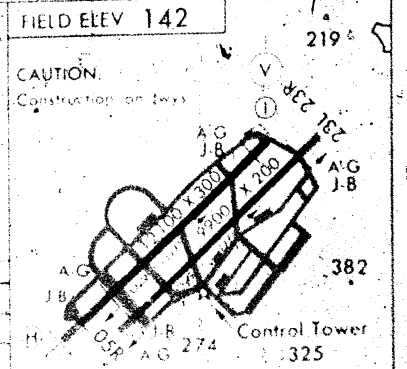
Left turn remain within 30 NM



MISSED APPROACH
At Min Alt climb on 054° to 2000.
20 NM after TACAN right turn intercept RAD-140 and hold.

FIELD ELEV 142

CAUTION
Construction on Twys



ANDING MINIMA		
Str-in-ILS	342 MSL	200 ½ or RVR 24
Str-in-TACAN	400 MSL	300 1
✲ Circling	800 MSL	700 1

✲ Circling to East only.

TO Rwy 05L 1.0% UP
TO Rwy 05R 0.9% UP
TO Rwy 23L 0.2% UP
TO Rwy 23R 0.1% DOWN

TACAN/ILS-RWY 05-2

26°21'N-127°46'E

KADENA, OKINAWA 1, RYUKYU ISLANDS

KADENA AB

101

KADENA

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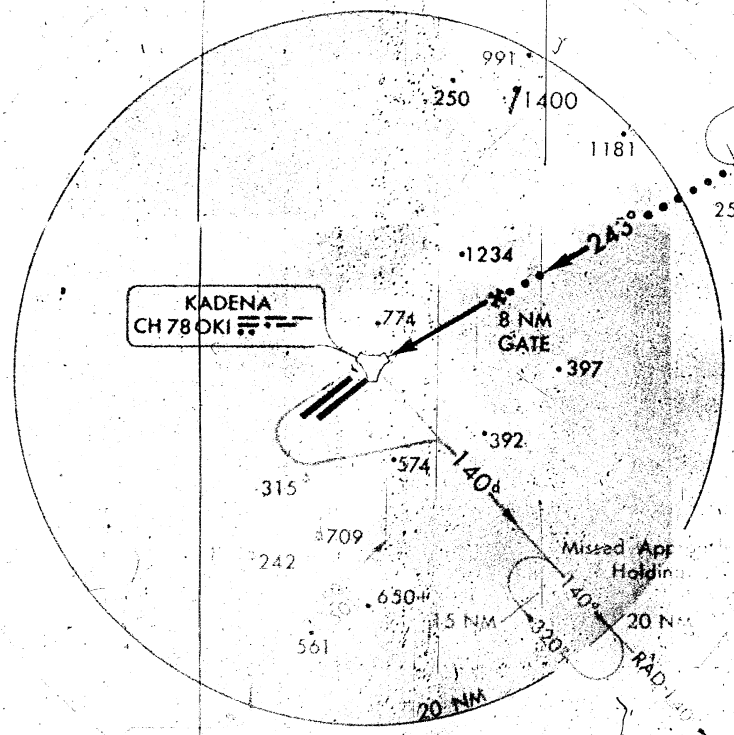
KADENA

TACAN-RWY 23-3

KADENA AB
KADENA, OKINAWA I., RYUKYU ISLANDS

OKINAWA APP CON
255.4 135.9
KADENA TOWER
315.8 236.6 226.2
GND CON
275.8
PAR/ASR

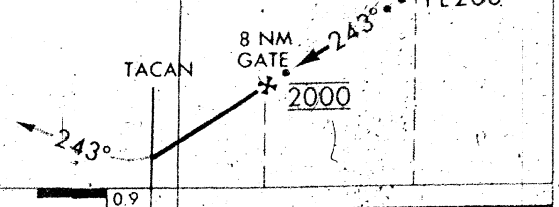


TA 18,000

EMERG SAFE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2600

MISSED APPROACH
at TACAN climb on 243° to 2000. At 5.0 NM after TACAN left turn to intercept RAD-140 and hold.

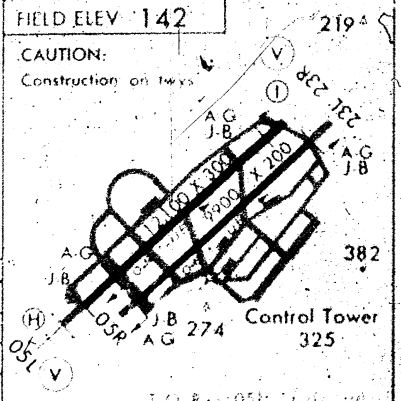


LANDING MINIMA		
Straight-in	600 MSL	1500-1
Circling *	800 MSL	700-1

* Circling to East only.

FIELD ELEV 142

CAUTION:
Construction on twys



T-O Rwy 05L
T-O Rwy 05R
T-O Rwy 23L
T-O Rwy 23R

TACAN-RWY 23-3

26°21'N-127°46'E

KADENA, OKINAWA I., RYUKYU ISLANDS
KADENA AB

99

KADENA

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NAHA

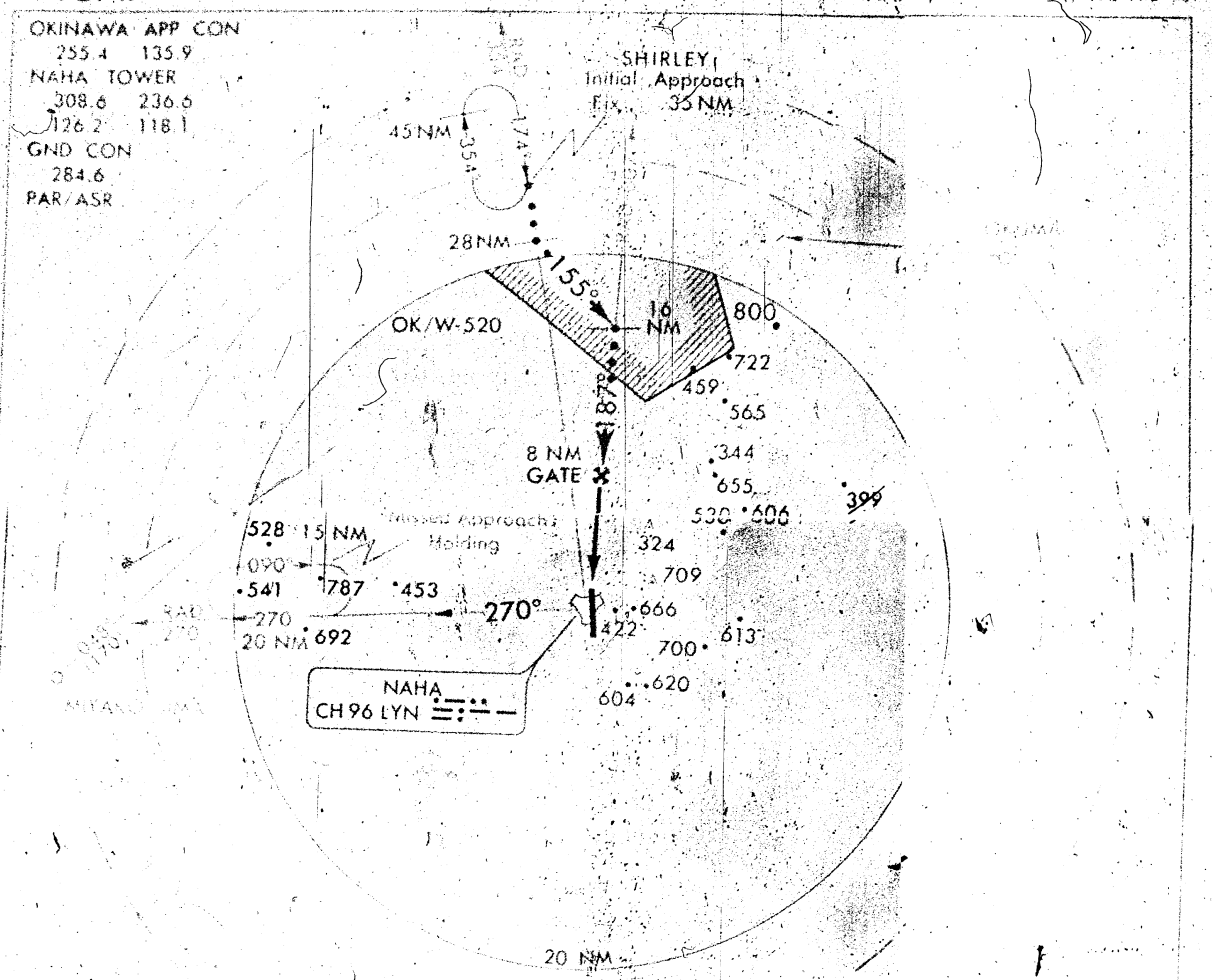
TACAN-RWY 18

158

NAHA AB

NAHA, OKINAWA, RYUKYU IS.

OKINAWA APP CON
255.4 135.9
NAHA TOWER
308.6 236.6
126.2 118.1
GND CON
284.6
PAR/ASR

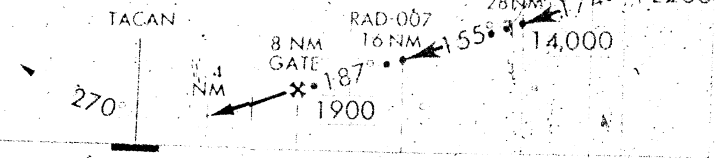


TA 18000

EMERG SAFE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2200

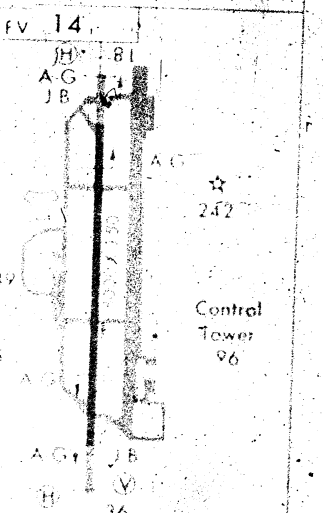
MISSED APPROACH
1.4-NM prior to TACAN, right turn climb on RAD-270 to 2000 and hold



LANDING MINIMA		
Straight-in	400 MSL	400-1
Circling *	600 MSL	600-1

* Circling to West only

FIELD ELEV 14



TACAN-RWY18

26°11'N-127°39'E

NAHA, OKINAWA, RYUKYU IS.

NAHA AB

NAHA

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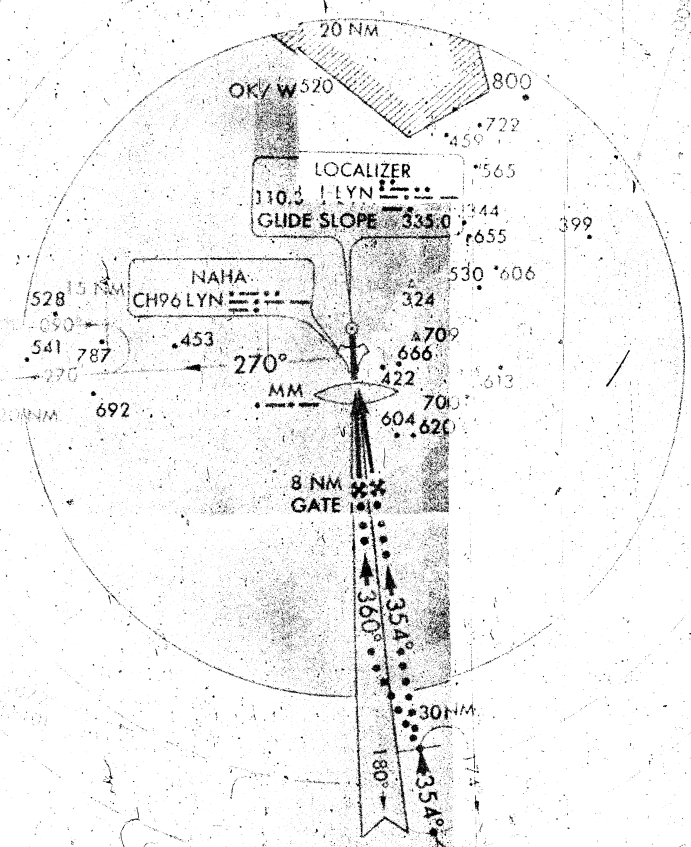
NAHA

TACAN/ILS RWY 36-1

JAL 1733 (USAF)

NAHA AB
NAHA, OKINAWA I., RYUKYU IS.

OKINAWA APP CON
255.4 135.9
NAHA TOWER
308.6 236.6
126.2 118.1
GND CON
284.6
PAR/ASR

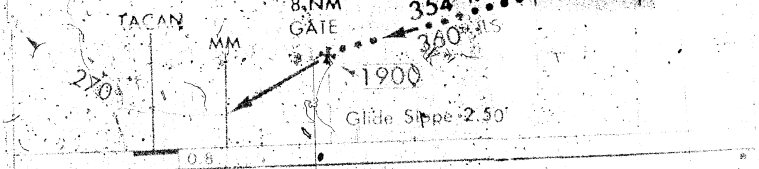


TA 18,000
EMERG SAFE ALT 100 NM 2700

MISSED APPROACH
1.7 NM prior to TACAN left turn,
climb on RAD 270 to 2000 and Hold.

MIN SAFE ALT 25 NM 2200
FIELD ELEV 14

RUTH
RAD-1
40 N
30 NM
354°
1200



LANDING MINIMA		
Str-in ILS	314 MSL	300
Str-in-TACAN	500 MSL	500
Circling	600 MSL	600
Str-in LOC	400 MSL	400

*Circling to West only

TACAN/ILS RWY 36-1

26 11 N-127 39 E

159

NAHA AB

NAHA

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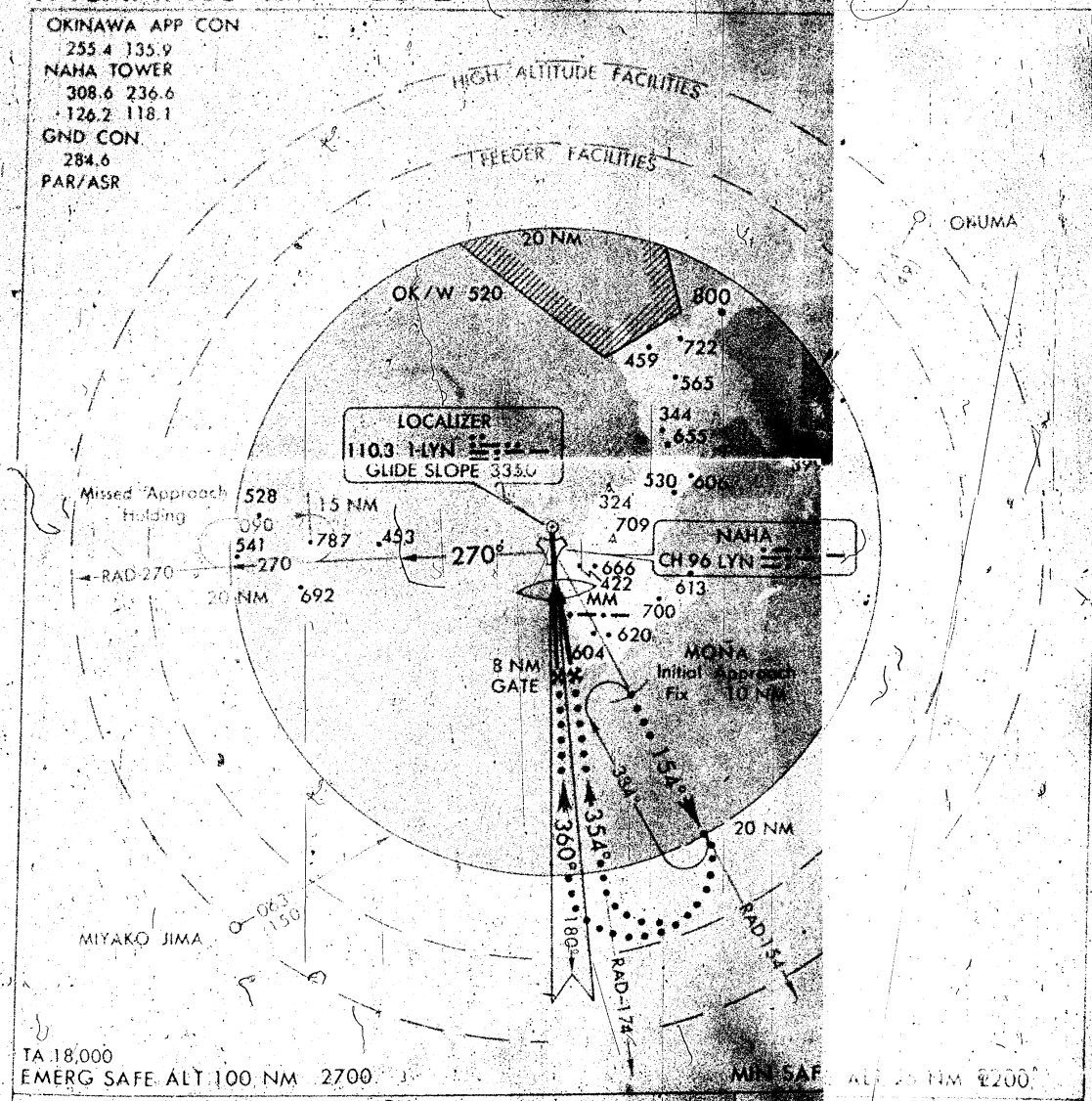
NAHA

TACAN/ILS-RWY 36-2

160
JAL 1733 (USAF)

NAHA AB
NAHA, OKINAWA I., RYUKYU IS.

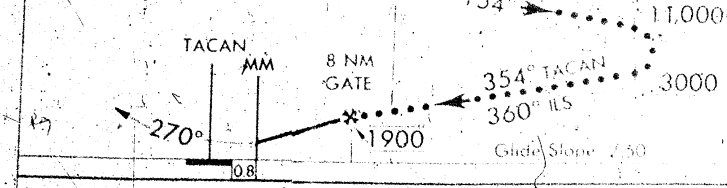
OKINAWA APP CON
255.4 135.9
NAHA TOWER
308.6 236.6
126.2 118.1
GND CON
284.6
PAR/ASR



TA 18,000
EMERG SAFE ALT 100 NM 2700

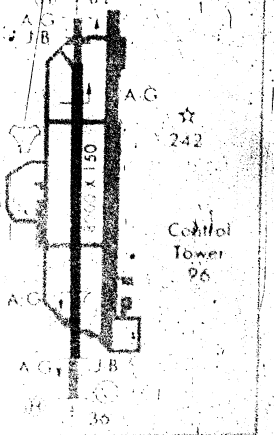
MIN SAF ALT 25 NM 2200

MISSED APPROACH
1.7 NM prior to TACAN, climb on RAD-270 to 2000 and hold.



LANDING MINIMA		
Str-in-ILS	314 MSL	300-1
Str-in-TACAN	500 MSL	500-1
Str-in-LOC	400 MSL	400-1
Circling ✲	600 MSL	600-1

✲ Circling to West only



TACAN/ILS-RWY 36-2 26 11 N 127 39 E

NAHA, OKINAWA I., RYUKYU IS.
NAHA AB

NAHA

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CLARK

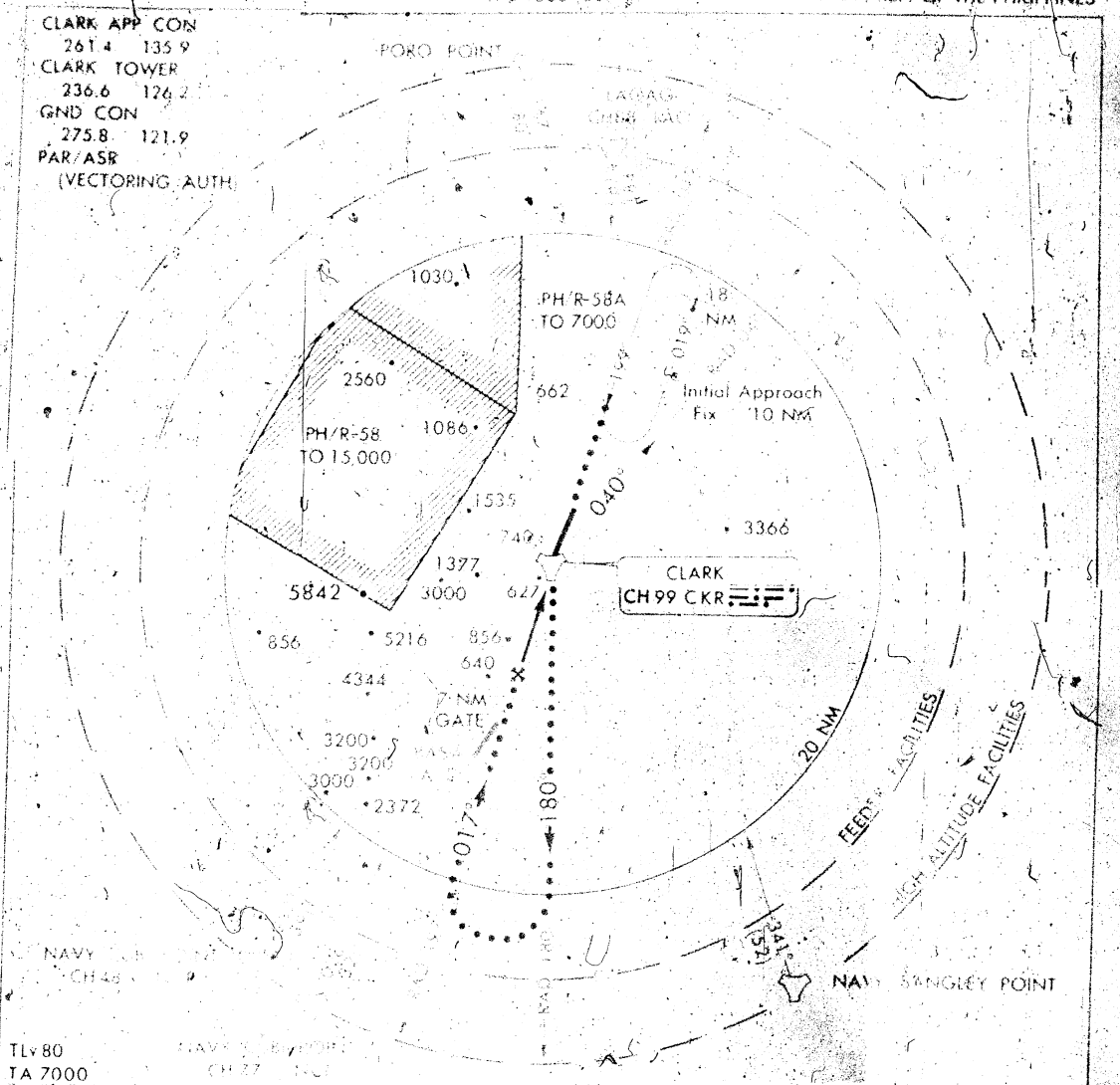
TACAN-1

CLARK AB

JAL 1880 (USAF)

LUZON I., REP. OF THE PHILIPPINES

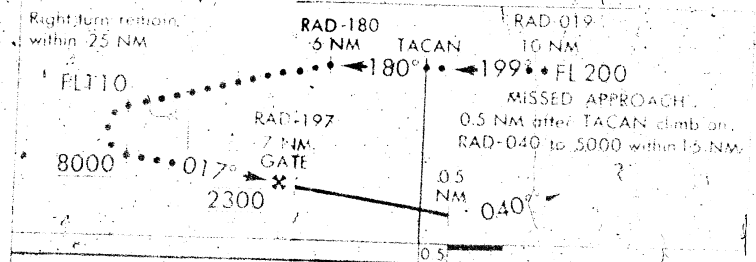
CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.2
GND CON
275.8 121.9
PAR/ASR
(VECTORING AUTH)

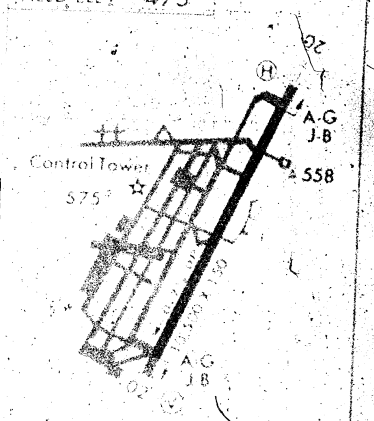


TLv 80
TA 7000
EMERG SAFE ALT 100 NM 11,600

MIN SAFE ALT 25 NM 8800

FIELD ELEV 475





LANDING MINIMA

Straight-in	1000 MSL	500-1
Circling *		

*Circling to East only.

TACAN to Missed Approach 0.5 NM

Knots	120	140	160	180	200
Min:Sec	0:15	0:13	0:12	0:10	0:09

TACAN-1

15°11'N-120°33'E

53

LUZON I., REP. OF THE PHILIPPINES

CLARK AB

CLARK

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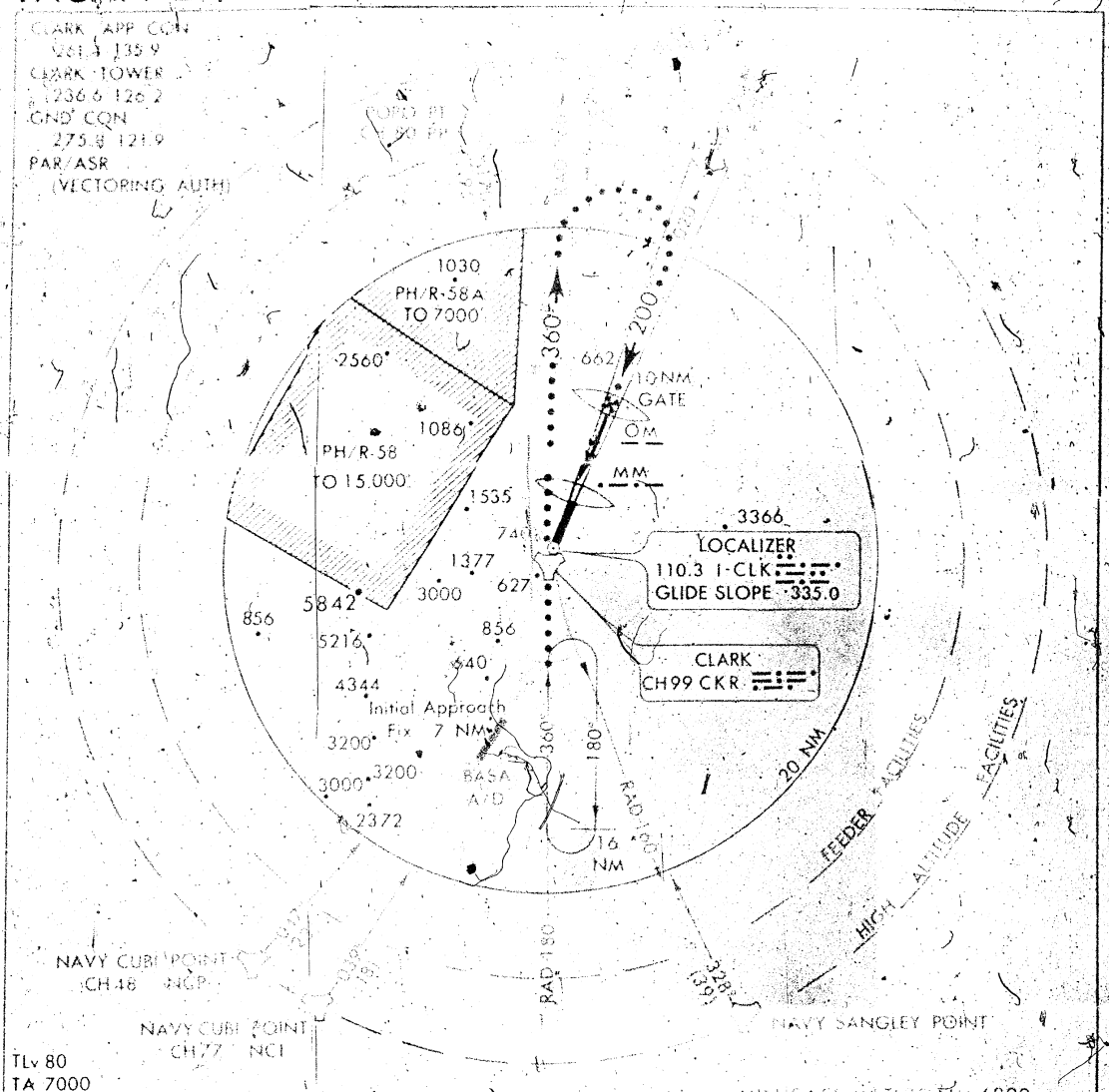
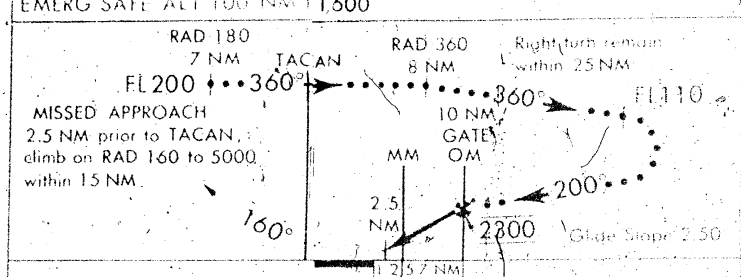
CLARK

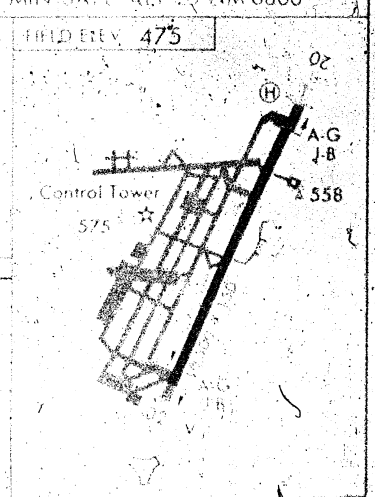
TACAN-2/ILS

JAL 1880 USAF

CLARK AB
LUZON I REP. OF THE PHILIPPINES







LANDING MINIMA

Str-in-ILS	700 MSL	200
Str-in-TACAN	900 MSL	400
Circling ✲	1000 MSL	500
Str-in-LOC	800 MSL	300

✲ Circling to East only.

TACAN-2/ILS

LUZON I REP. OF THE PHILIPPINES
CLARK AB

CLARK

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Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

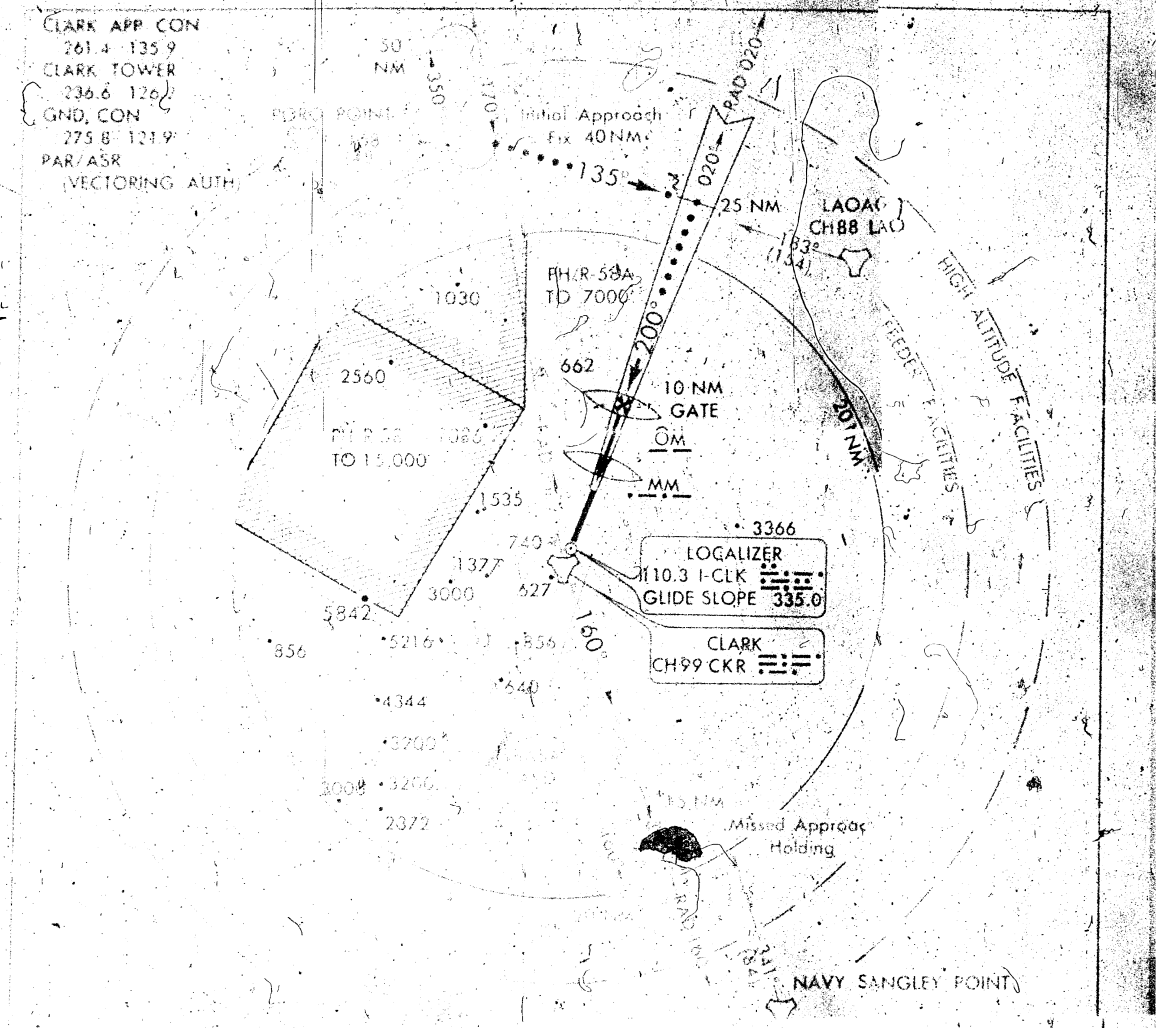
CLARK

TACAN-3/ILS

JAL-1880 (USAF)

CLARK AB
LUZON I., REP. OF THE PHILIPPINES

CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.2
GND. CON
275.8 121.9
PAR/ASR
(VECTORING AUTH)

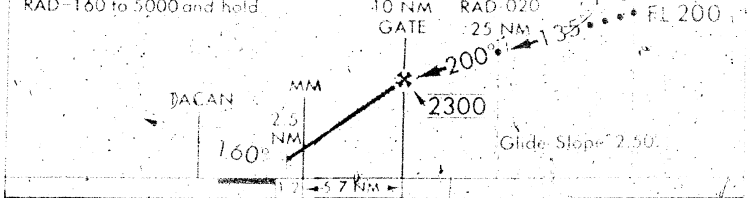


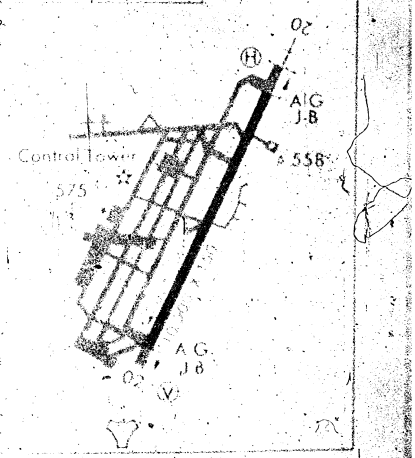
TLv 80
TA 7000
EMERG SAFE ALT 100 NM 11,600

MIN SAFE ALT 25 NM 6800

FIELD ELEV 475

MISSED APPROACH
2.5 NM prior to TACAN on climb
RAD 160 to 5000 and hold





LANDING MINIMA			
Str-in-ILS	700 MSL	200-1
Str-in-TACAN	900 MSL	400-1
Circling ✲	1000 MSL	500-1
Str-in-LOC	800 MSL	300-1

✲ Circling to East only

TACAN-3/ILS

15°11'N-120°33'E

LUZON I., REP. OF THE PHILIPPINES
CLARK AB

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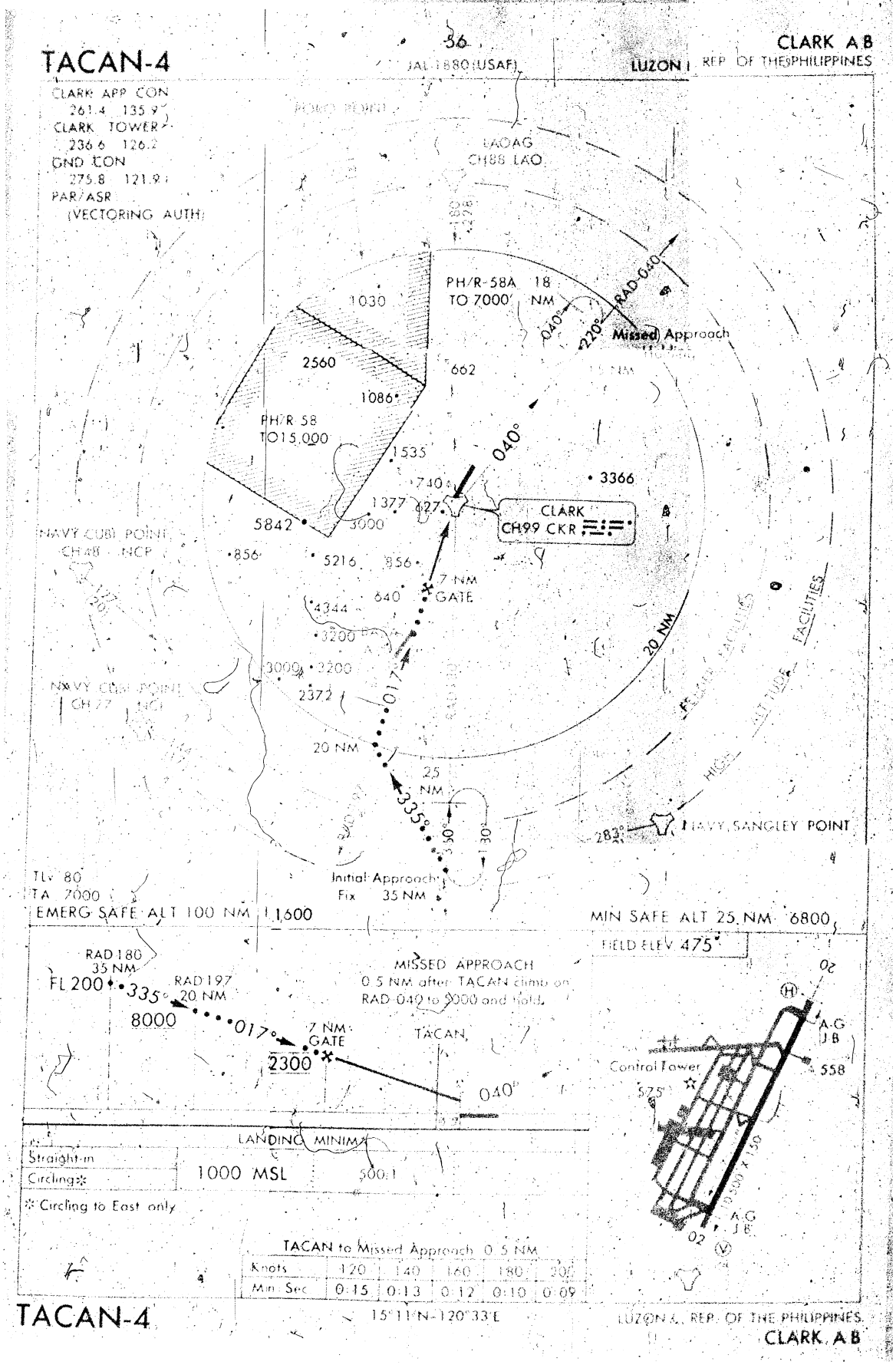
CLARK



CLARK

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Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

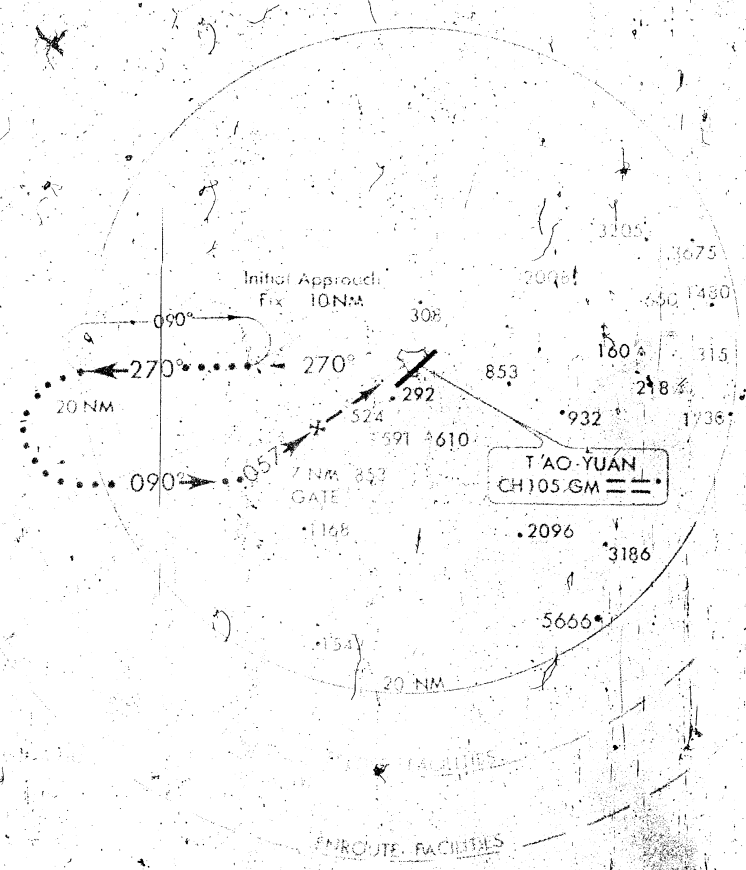
TAOYUAN

TACAN

202

T'AO-YUAN A/D
TAIWAN, REP OF CHINA

TAOYUAN APP CON
363.8 119.7
TWR TOWER
236.6 126.1
GND CON
275.8
PAR ASR



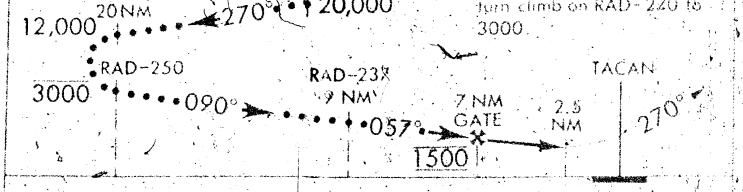
TA 18,000

EMERG SAFE ALT 100 NM 15,100

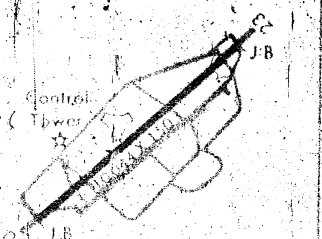
MIN SAFE ALT 25 NM 8000

FIELD ELEV 147

Left turn remain within 25 NM



MISSED APPROACH
2.5 NM prior to TACAN left turn climb on RAD-220 to 3000



LANDING MINIMA		
Straight-in	500 MSL	400-1
Circling *	600 MSL	500-1

*Circling to Northwest only.

TACAN

25°03'N-121°14'E

T'AO-YUAN TAIWAN REP OF CHINA

T'AO-YUAN A/D

TAOYUAN

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

CLARK

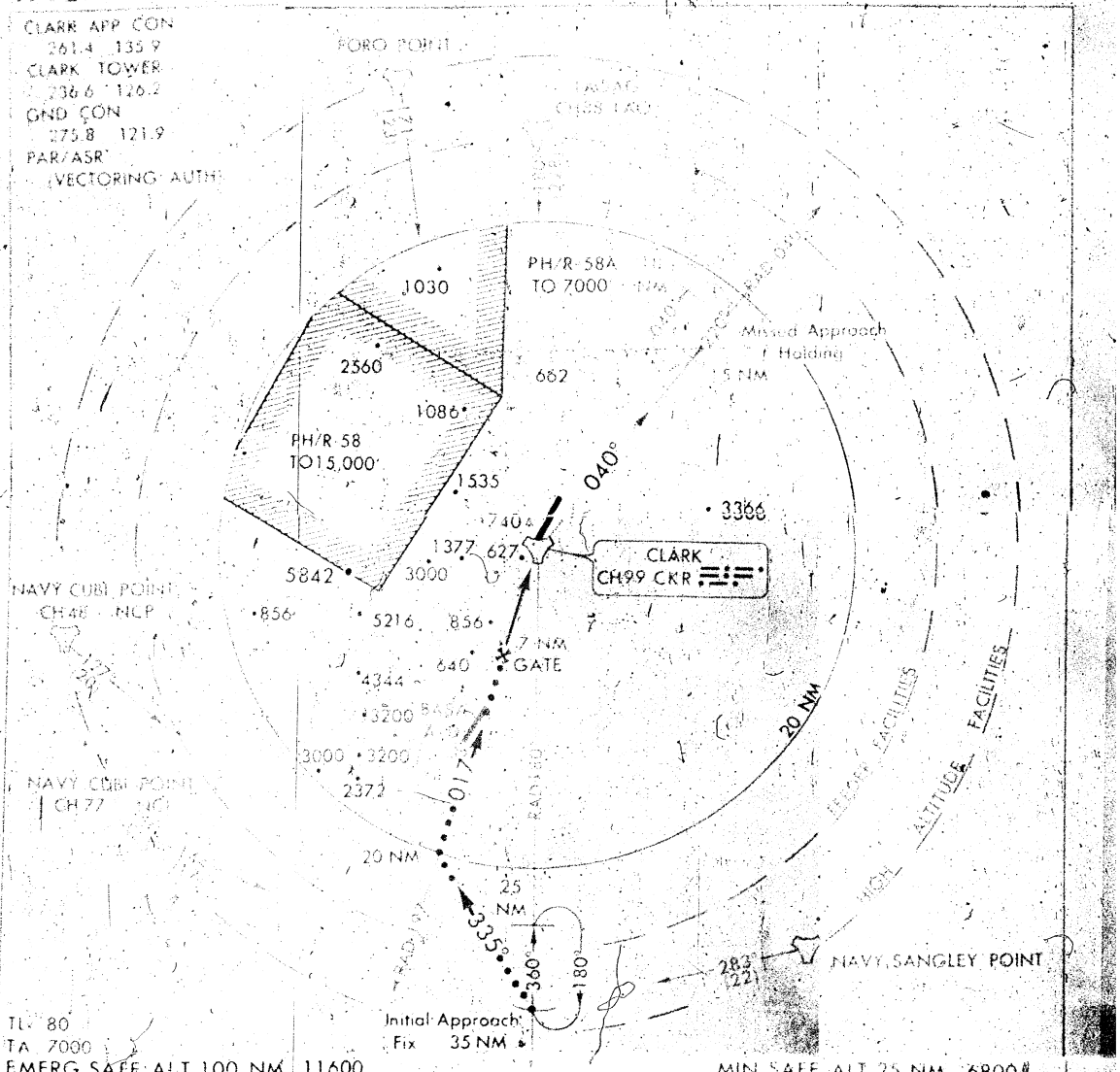
56

JAL 1880 USAF

CLARK A B
LUZON I., REP. OF THE PHILIPPINES

TACAN-4

CLARK APP CON
261.4 135.9
CLARK TOWER
238.6 126.2
GND CON
275.8 121.9
PAR/ASR
(VECTORING AUTH)

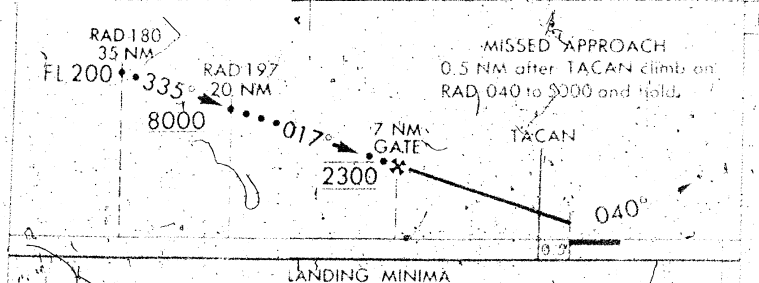


TL 80
TA 7000

Initial Approach Fix 35 NM

EMERG SAFE ALT 100 NM 11,600

MIN SAFE ALT 25 NM 6800



LANDING MINIMA

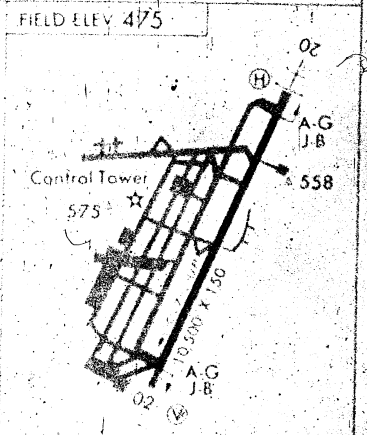
Straight-in	1000 MSL	500:1
Circling*		

* Circling to East only

TACAN to Missed Approach 0.5 NM

Knots	120	140	160	180	200
Min : Sec	0:15	0:13	0:12	0:10	0:09

FIELD ELEV 475



15°11'N-120°33'E

LUZON I., REP. OF THE PHILIPPINES
CLARK A B

TACAN-4

CLARK

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Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

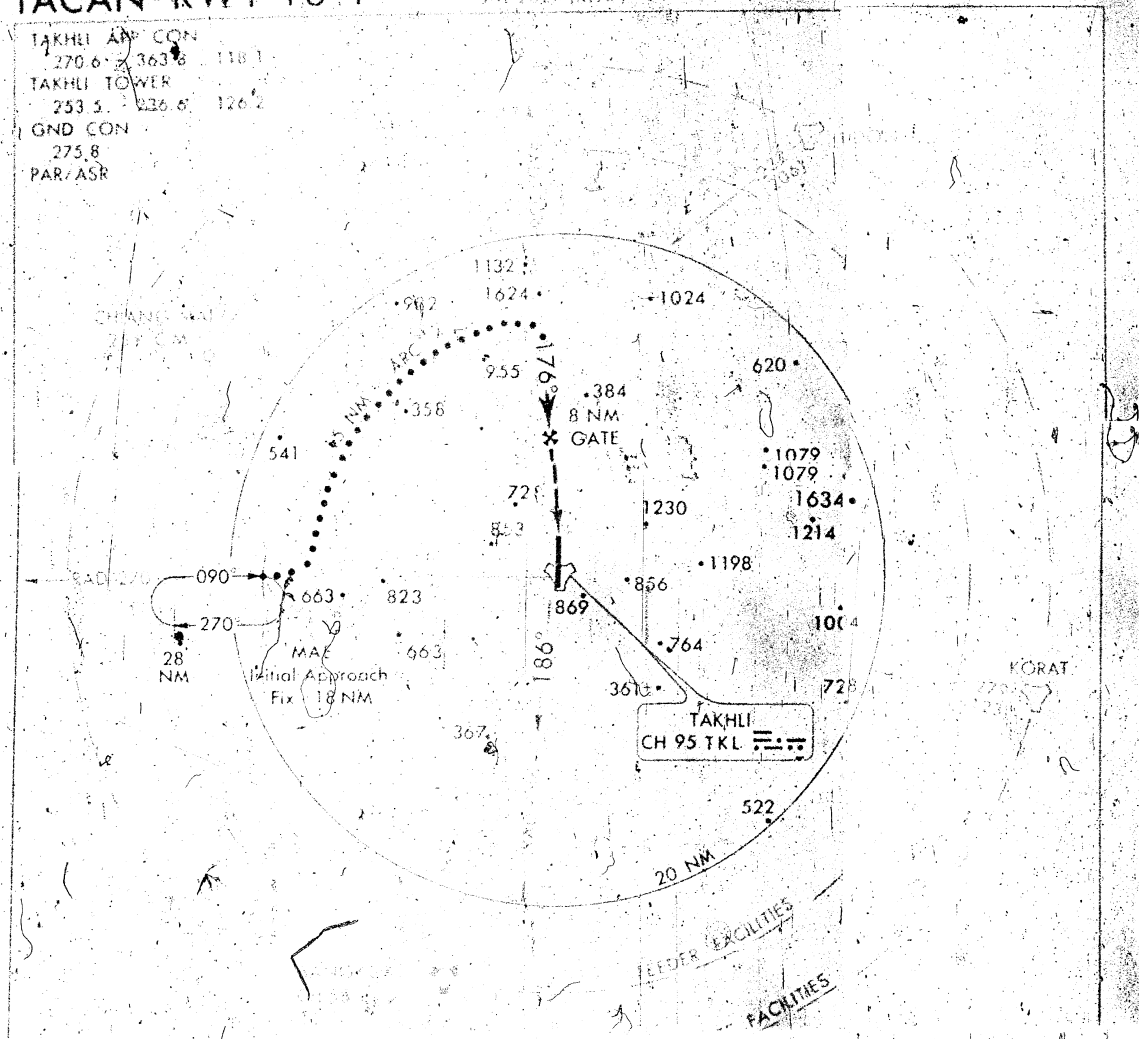
TAKHLI

194

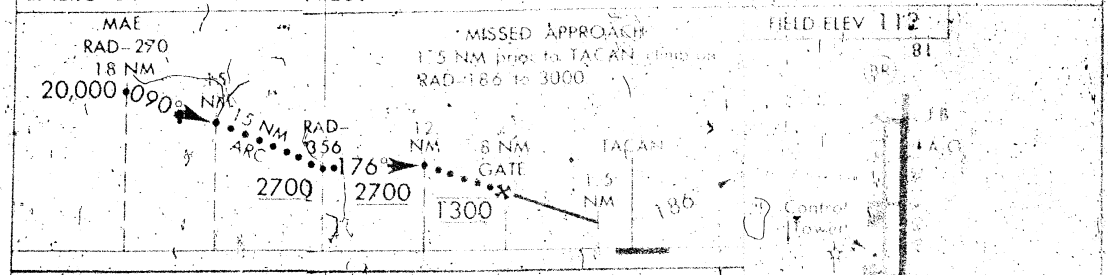
TACAN-RWY 18-1

TAKHLI A/D
TAKHLI, THAILAND

TAKHLI APP CON
270.6 363.6 118.1
TAKHLI TOWER
253.5 236.6 126.2
GND CON
275.8
PAR/ASR



EMERG SAFE ALT 100 NM 8200 MIN SAFE ALT 25 NM 2700



LANDING MINIMA	
Straight-in	400 MSL 300
Circling	NOT AUTHORIZED

TACAN-RWY 18-1

16°16'N-100°18'E

THAILAND

TAKHLI A/D

TAKHLI

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Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

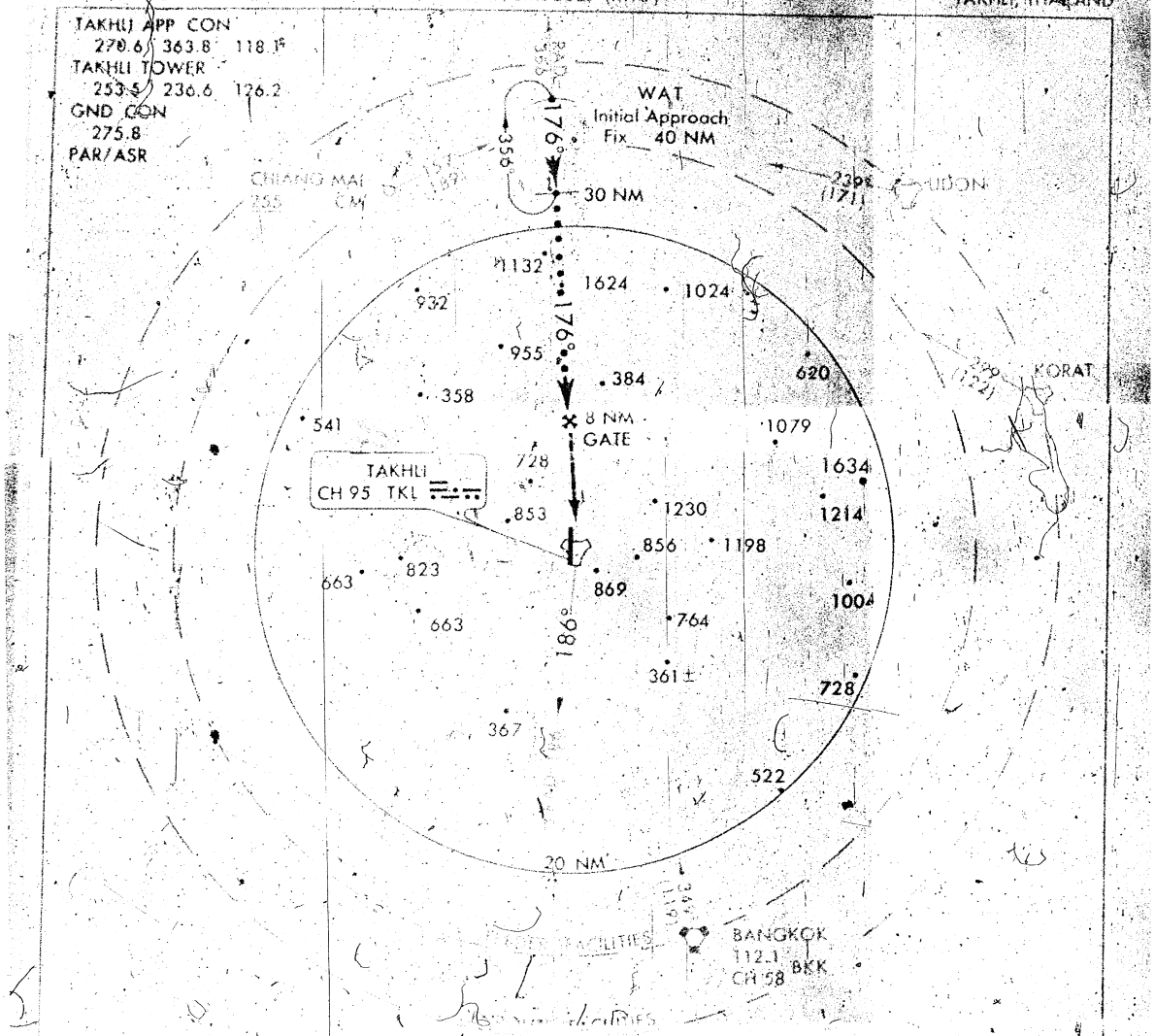
TAKHLI

TACAN-RWY 18-2

JAL 2627 (RTAF)

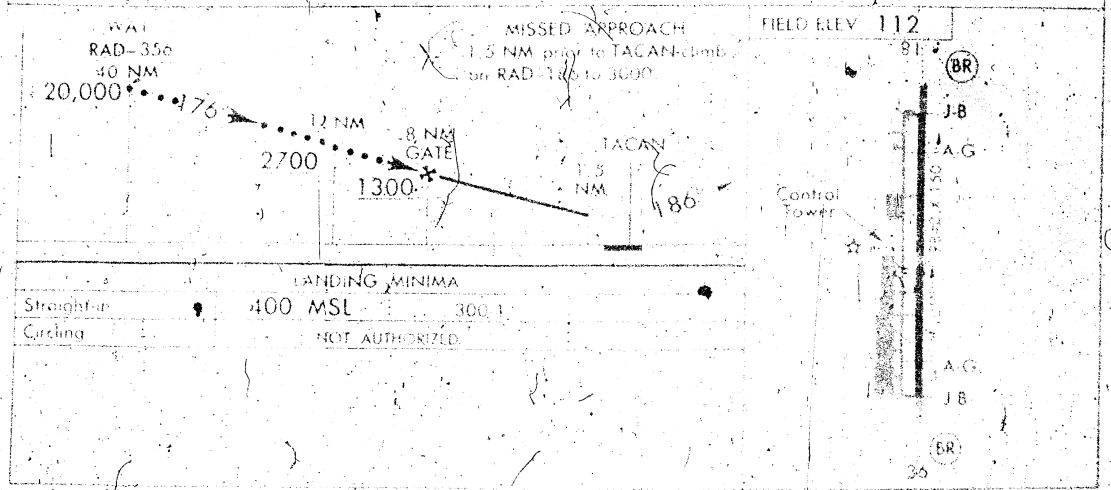
TAKHLI A/D
TAKHLI, THAILAND

TAKHLI APP CON
270.6 363.8 118.1
TAKHLI TOWER
253.5 236.6 126.2
GND CON
275.8
PAR/ASR



EMERG SAFE ALT 100 NM 8,200

MIN SAFE ALT 25 NM 2700



LANDING MINIMA		
Straight-in	400 MSL	300-1
Circling	NOT AUTHORIZED	

TACAN-RWY 18-2

19 16 N 100 18 4

195

TAKHLI, THAILAND

TAKHLI A/D

TAKHLI

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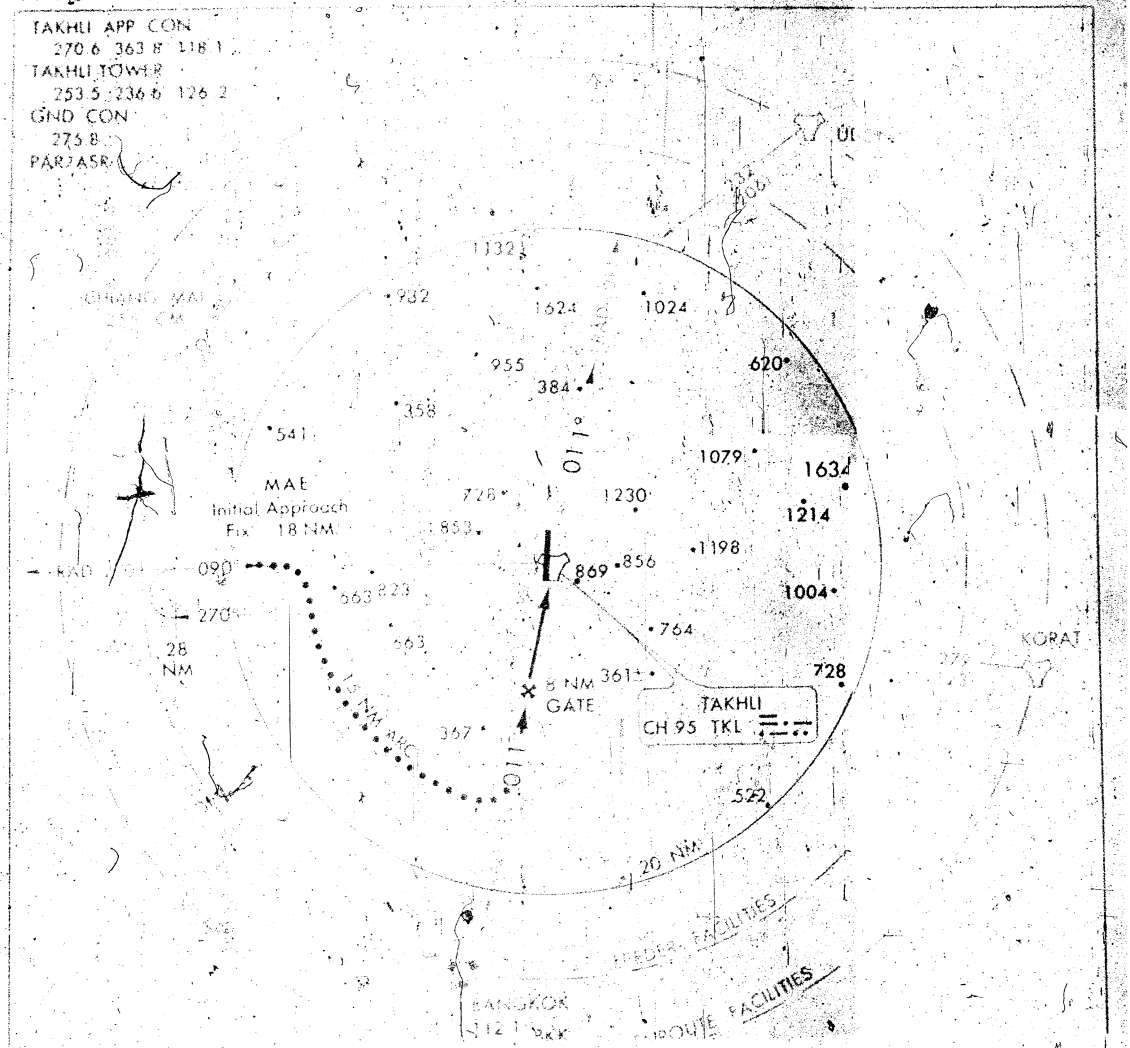
TAKHLI

TACAN - RWY 36

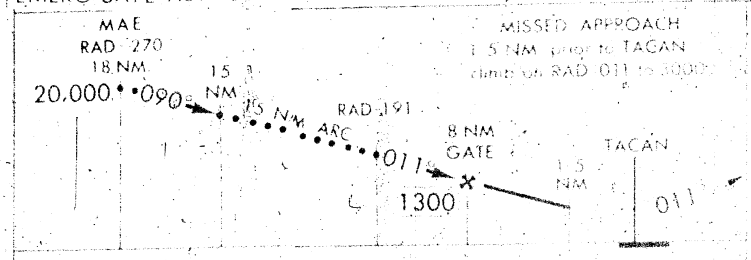
TAKHLI A/D
TAKHLI, THAILAND

TAKHLI APP CON
270.6 363.8 118.1
TAKHLI TOWER
253.5 236.6 126.2
GND CON
275.8
PAR/ASR



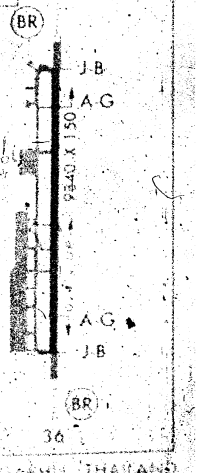
EMERG SAFE ALT 100 NM 8200

MIN SAFE ALT 25 NM 2700



LANDING MINIMA		
Straight in	400 MSL	300-1
Circling	NOT AUTHORIZED	

FIELD ELEV 112



TACAN-RWY 36

15/16 N 100 16 E

THAILAND

TAKHLI A/D

TAKHLI

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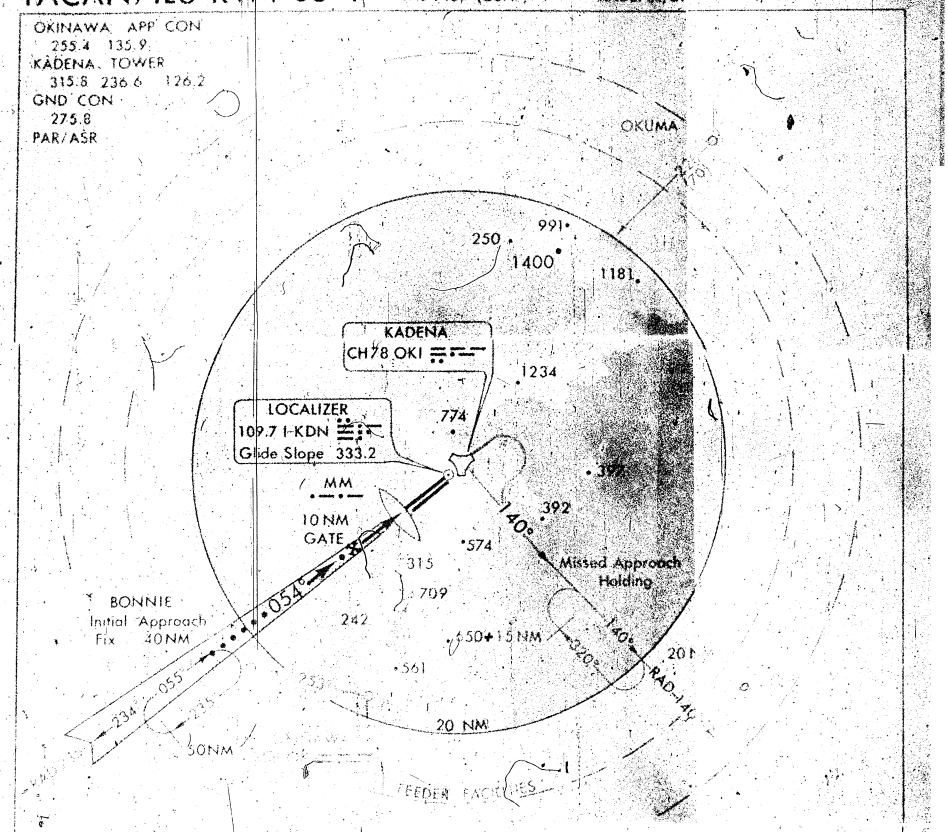
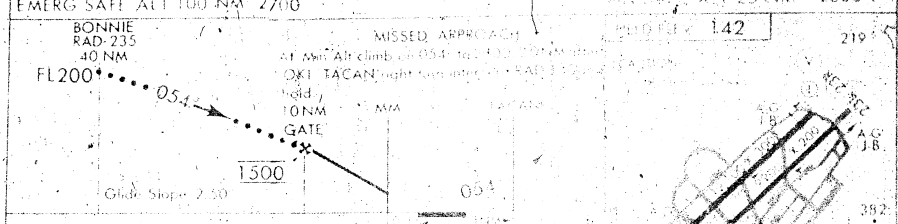
KADENA

TACAN/ILS-RWY 05-1 100 JAL-1457 (USAF) KADENA AB KADENA, OKINAWA I., RYUKYU ISLANDS



TA18,000
EMERG SAFE ALT 100 NM 2700



Str-in-ILS	342 MSL	200
Str-in-TACAN	400 MSL	300
* Circling	800 MSL	200

*Circling to East only

TACAN/ILS-RWY 05-1 KADENA AB

KADENA

ROUTE

14
BX 6706

FS # 10
30 JUNE 67

STRIP

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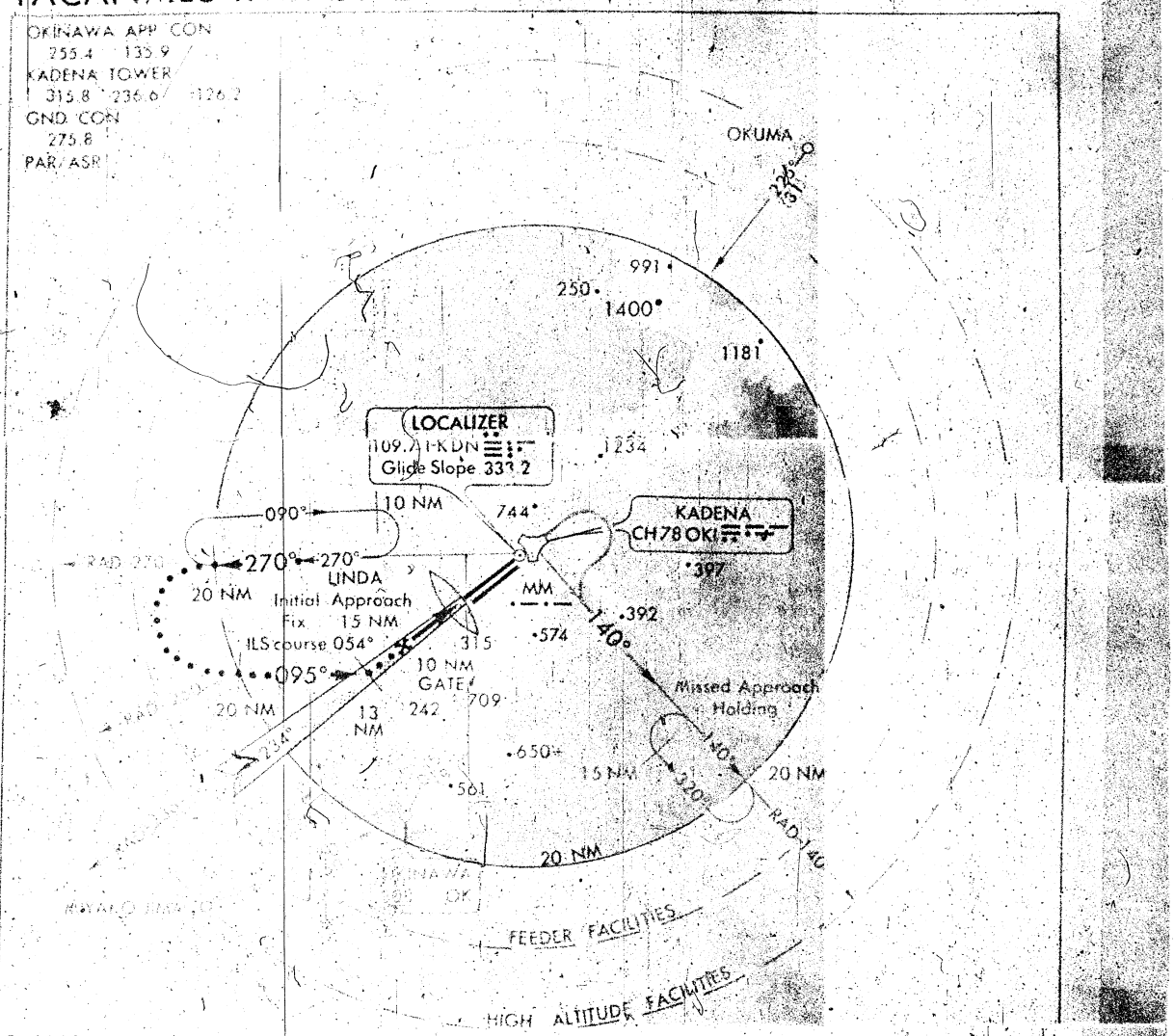
KADENA

TACAN/ILS-RWY 05-2

JAL-1457 (USAF)

KADENA AB
KADENA, OKINAWA I., RYUKYU ISLANDS



TA 18,000
EMERG SAFE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2600

FIELD ELEV 142

Left turn remain within 30 NM

LINDA RAD-270 15 NM

12,000 270° FL 200

RAD-250 20 NM

RAD-235 13 NM

4000 095°

2000 054°

10 NM GATE

1500

MISSED APPROACH
At Min Alt climb on 054° to 2000
2.0 NM after TACAN right turn
intercept RAD-140 and hold

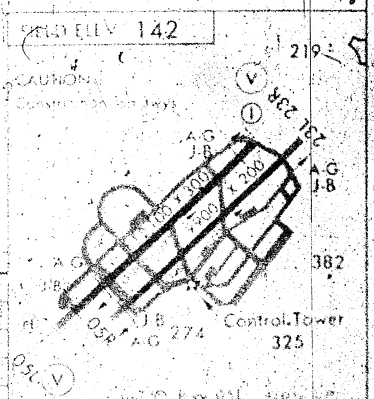
MM TACAN

054°

Glide Slope 2.50°

0.3 3.0 NM

CAUTION
Construction on twys



LANDING MINIMA

Str-in-ILS	342 MSL	200 ½ or RVR 24
Str-in-TACAN	400 MSL	300-1
✻ Circling	800 MSL	700-1

✻ Circling to East only.

T-O Rwy 05L [illegible]
T-O Rwy 05R [illegible]
T-O Rwy 23L [illegible]
T-O Rwy 23R [illegible]

TACAN/ILS-RWY 05-2

26°21'N-127°46'E

KADENA, OKINAWA I., RYUKYU ISLANDS
KADENA AB

KADENA

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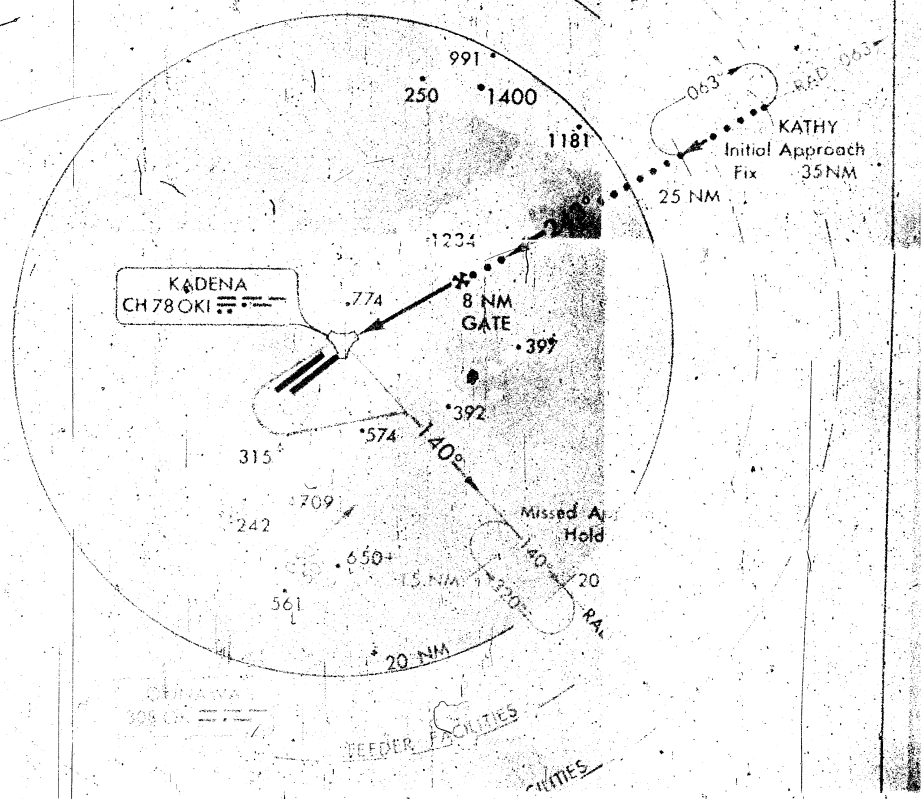
KADENA

TACAN-RWY 23-3

AL 1457 (USAF) KADENA, OKINAWA I., RYUKYU ISLANDS

KADENA AB

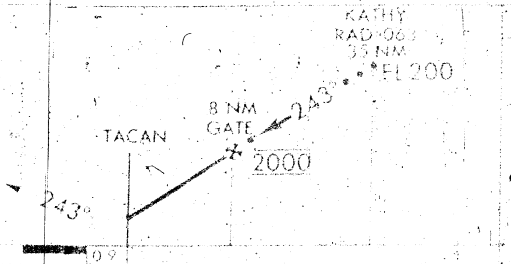
OKINAWA APP CON
255.4 135.9
KADENA TOWER
315.8 236.6 126.2
GND CON
275.8
PAR ASR



TA 18,000
EMERG SAFE ALT 2700

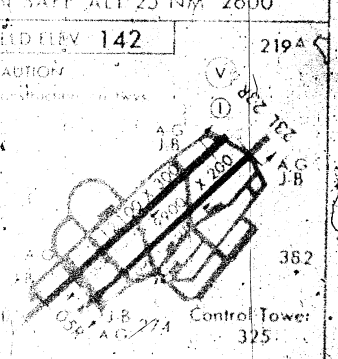
MIN SAFE ALT 25 NM 2600

MISSED APPROACH
At TACAN climb on 243° to 2000. At 5.0 NM after TACAN left turn to intercept RAD 140 and hold.



FIELD ELEV 142

CAUTION



	ANDING MINIMA	
Straight in	600 MSL	500 1
Circling ✻	800 MSL	700 1

✻ Circling to East only

TACAN-RWY 23-3 26°21'N-127°46'E KADENA, OKINAWA I., RYUKYU ISLANDS

KADENA AB

99

KADENA

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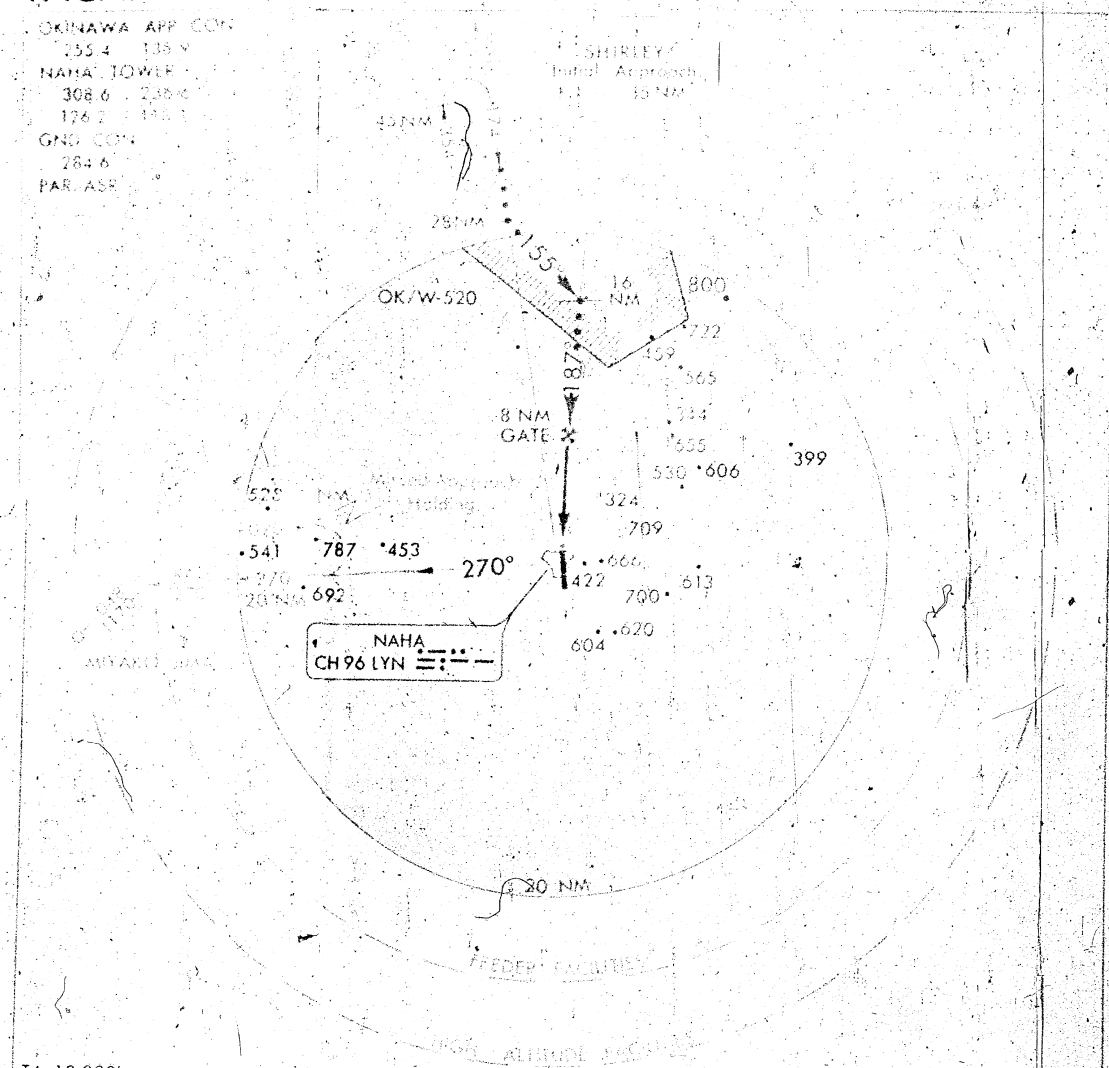
NAHA

TACAN-RWY 18

158

NAHA AB

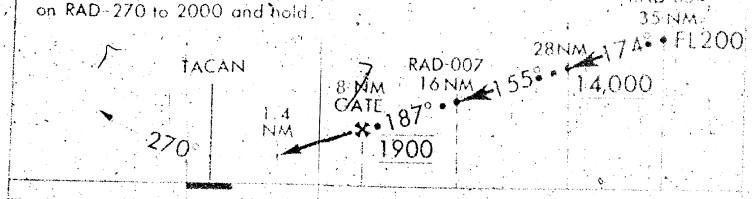
OKINAWA APP CON
255.4 135.9
NAHA TOWER
308.6 236.6
126.2 118.1
GND CON
284.6
PAR ASR



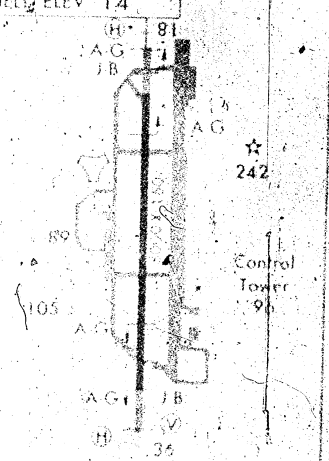
TA 18,000
EMERG SAFE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2200

MISSED APPROACH
1.4 NM prior to TACAN, right turn climb on RAD-270 to 2000 and hold.



FIELD ELEV 14



LANDING MINIMA		
Straight-in	400 MSL	400-1
Circling ※	600 MSL	600-1

※ Circling to West only

TACAN-RWY18

26°11'N 127°39'E

NAHA OKINAWA RYUKYU IS

NAHA AB

NAHA

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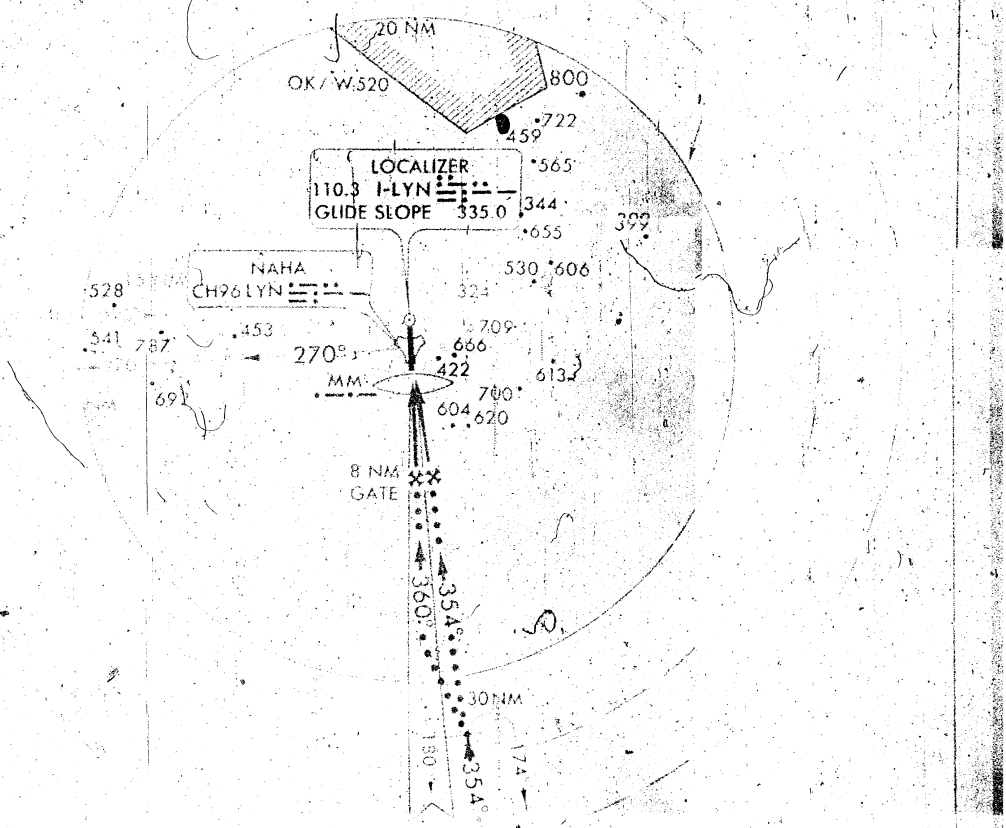
Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

NAHA

TACAN/ILS RWY 36-1

NAHA AB

OKINAWA APP CON
255.4 135.9
NAHA TOWER
308.6 236.6
126.2 118.1
GND CON
284.6
PAR/BASR



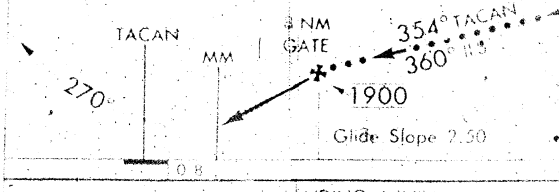
TA 18,000
EMERG SAFE ALT 100 NM 2700

RUTH
Initial Approach
FL 40 NM

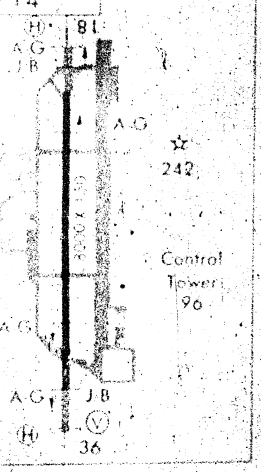
MIN SAFE ALT 25 NM 2200

MISSED APPROACH
1.7 NM prior to TACAN left turn, climb on RAD 270 to 2000 and hold.

RUTH
RAD 174
30 NM 40 NM
354° FL 200



RWY ELEV 14



LANDING MINIMA			
Str-in-ILS	314	MSL	300-1
Str-in-TACAN	500	MSL	500-1
Circling*	600	MSL	600-1
Str-in-LOC	400	MSL	400-1

*Circling to West only

TACAN/ILS RWY 36-1 26 11 N-127 39 E

OKINAWA RYUKYU IS

NAHA AB

NAHA

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Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

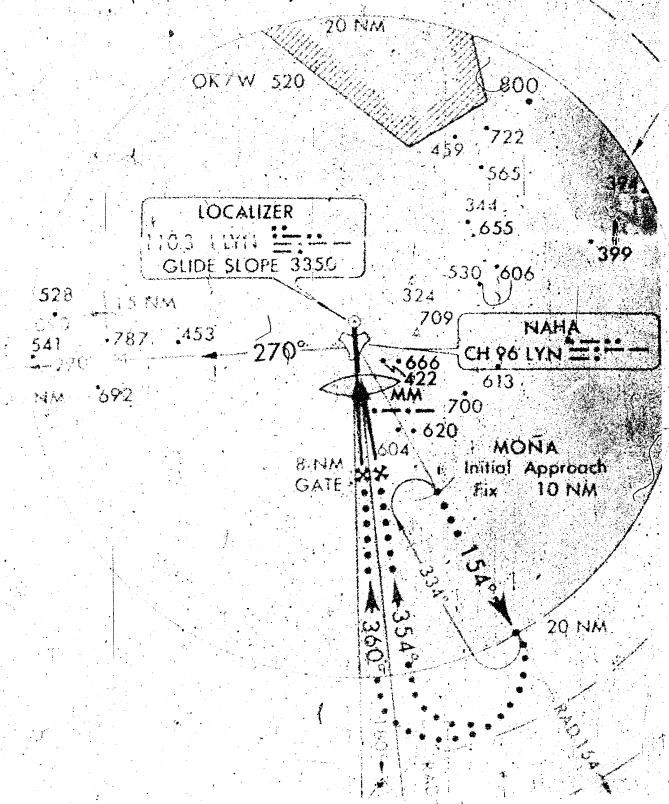
NAHA

TACAN/ILS-RWY 36-2

NAHA AB

NAHA, OKINAWA I., RYUKYU IS.

OKINAWA APP CON
255.4 336.9
NAHA TOWER
308.6 236.6
126.2 118.1
GND CON
284.6
PAR/ASR

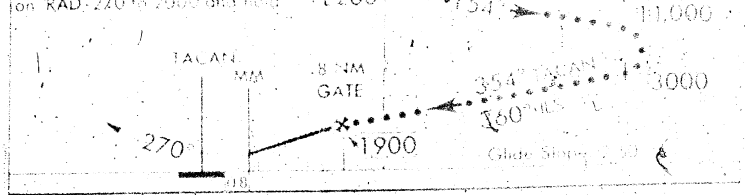


MIN SAFE ALT 25 NM 2200

EMERG SAFE ALT 100 NM 2700

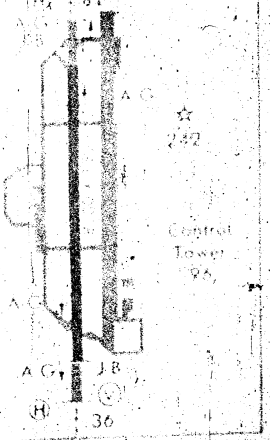
MISSED APPROACH
1.7 NM prior to TACAN, climb on RAD 220 to 2000 and hold

MONA
RAD 154
10 NM



LANDING MINIMA			
Str-in-ILS	314	MSL	300 1
Str-in-TACAN	500	MSL	500 1
Str-in-LOC	400	MSL	400 1
Circling *	600	MSL	600 1

*Circling to West only



TACAN/ILS-RWY 36-2

26 11 N 127 39 E

NAHA, OKINAWA I., RYUKYU IS.

NAHA AB

NAHA

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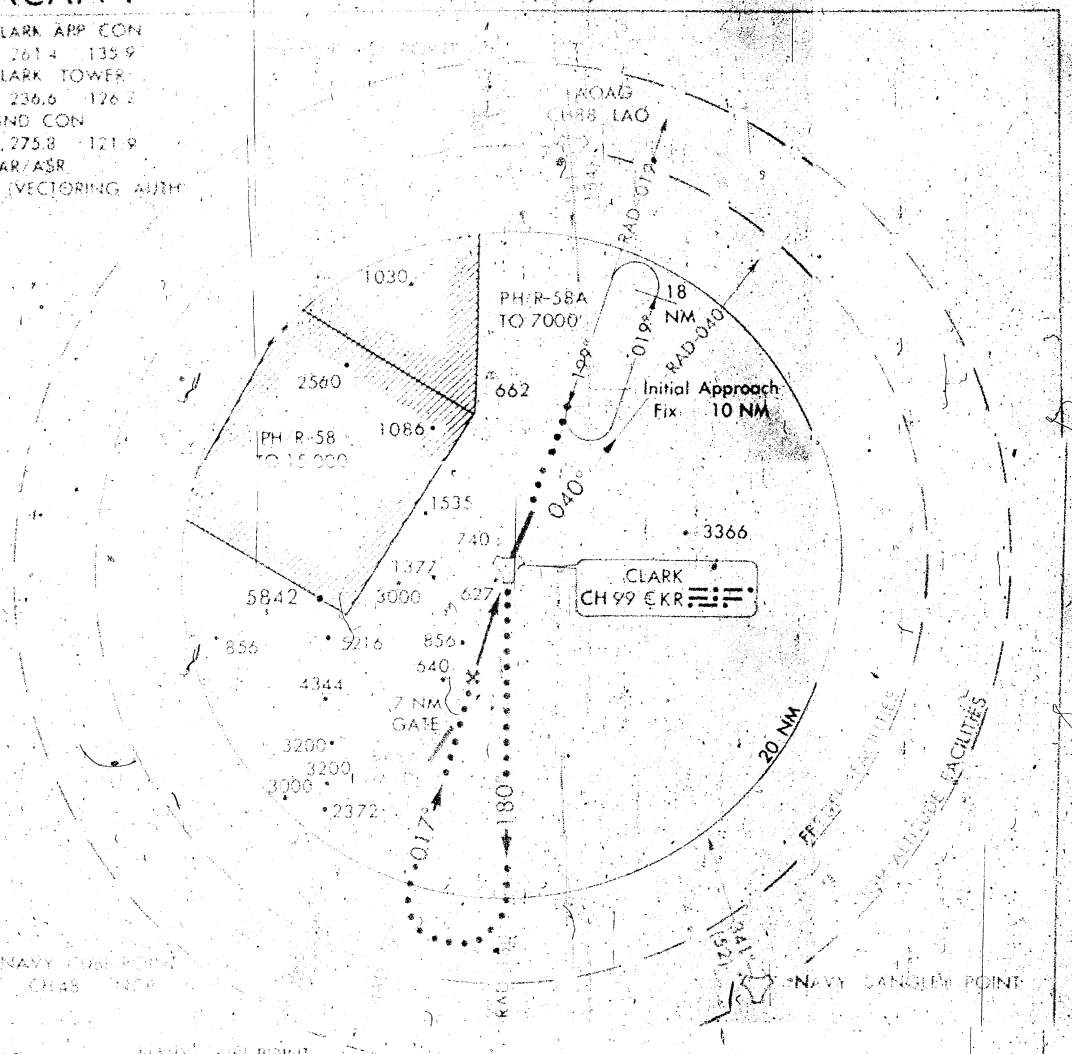
Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

CLARK

TACAN-1

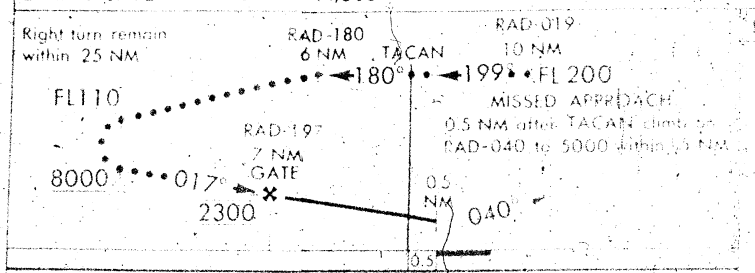
CLARK AB
ELEV 480 (USAF)
LUZON I., REP. OF THE PHILIPPINES

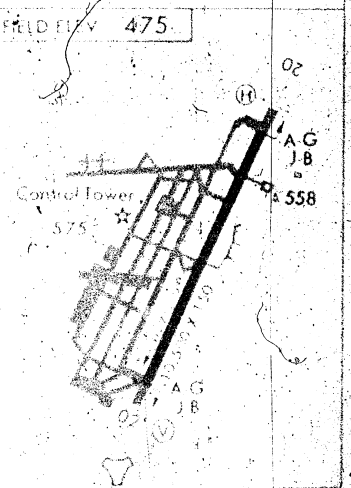
CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.2
GND CON
275.8 121.9
PAR/ASR
(VECTORING AUTH)



TLv 80
TA 7000
EMERG SAFE ALT 100 NM 11,600

MIN SAFE ALT 25 NM 6800
FIELD ELEV 475





LANDING MINIMA

Straight-in	1000 MSL	500-1
Circling *		

*Circling to East only.

TACAN to Missed Approach 0.5 NM

Knots	120	140	160	180	200
Min:Sec	0:15	0:13	0:12	0:10	0:09

TACAN-1

15-11 N, 120°33' E

LUZON I., REP. OF THE PHILIPPINES
CLARK AB

53

CLARK

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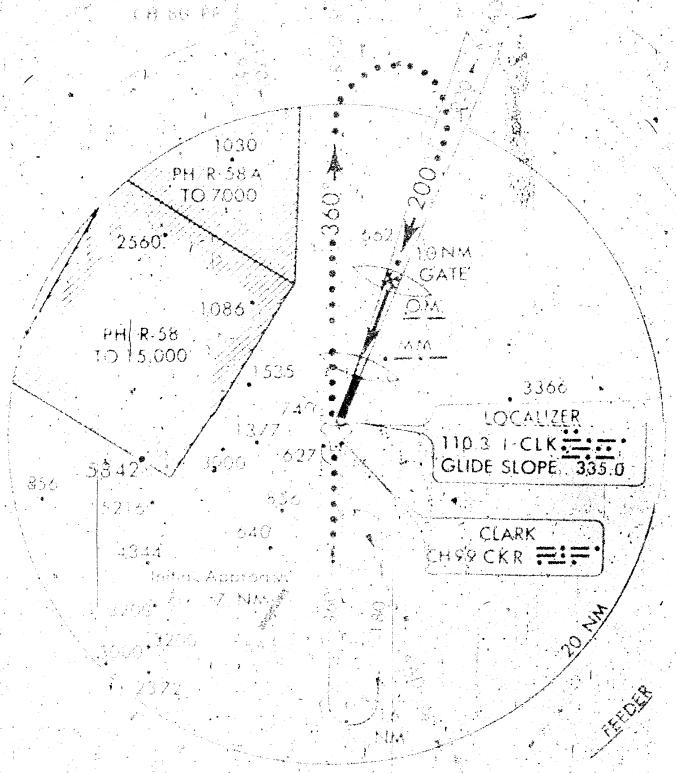
CLARK

TACAN-2/ILS

54

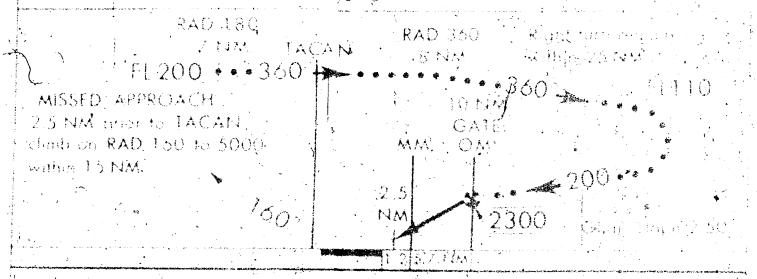
CLARK AB

LUZON I., REP. OF THE PHILIPPINES



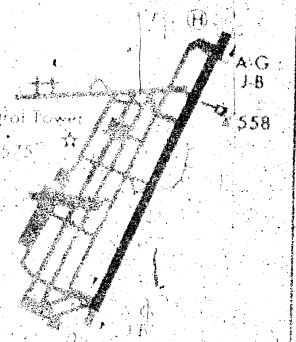
CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.2
GND CON
275.8 121.9
PAR/ASR
VECTORING AUTH

TL 60
TA 7000
EMERG SAFE ALT FL 600



LANDING MINIMA		
Straight ILS	700 MSL	200
Straight TACAN	900 MSL	400
Circling *	000 MSL	500
Straight LOC	800 MSL	300

*Circling to East only



TACAN-2/ILS

15 11 N 120 33 E

LUZON I., REP. OF THE PHILIPPINES
CLARK AB

CLARK

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

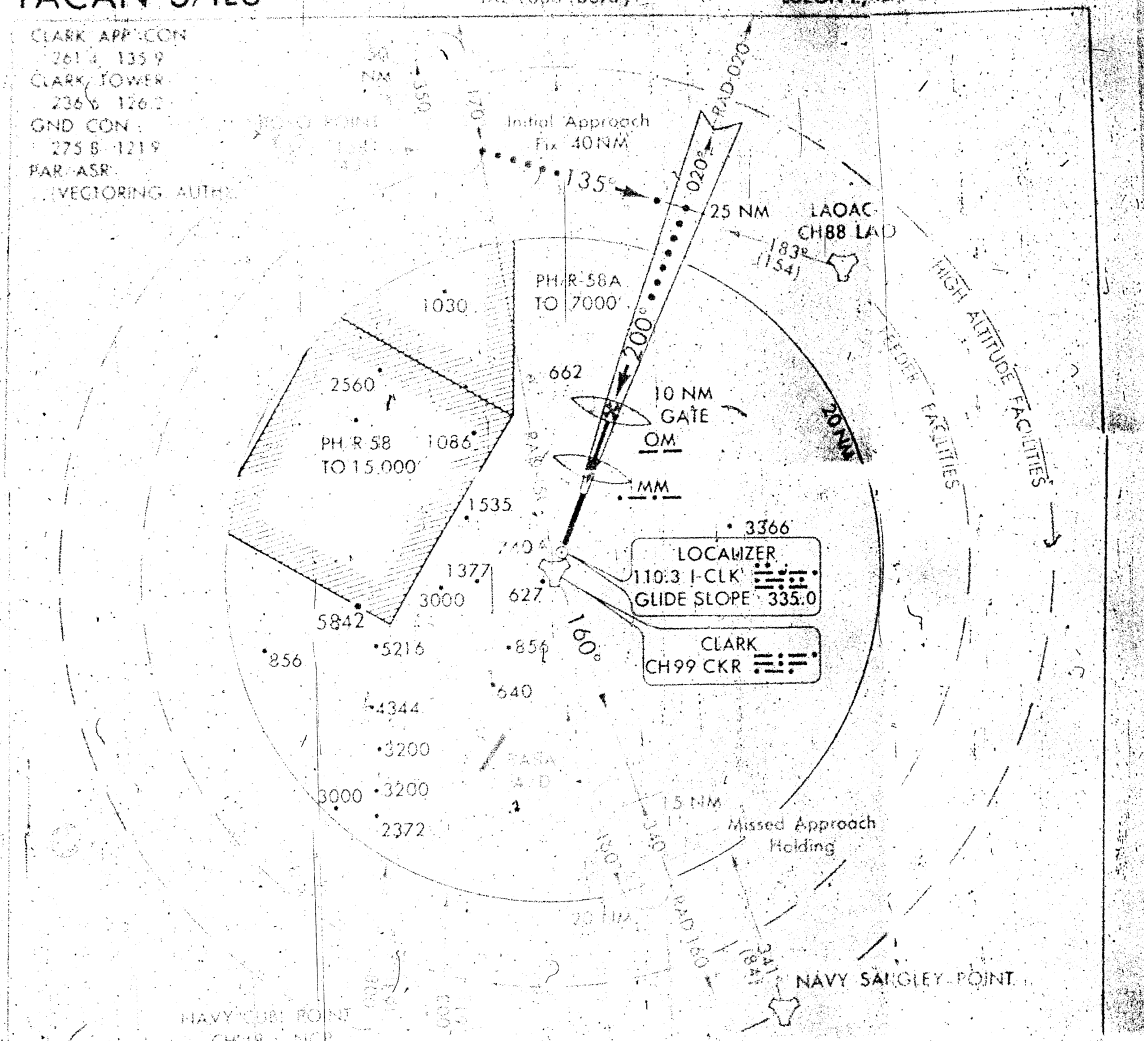
CLARK

TACAN-3/ILS

CLARK AB
LUZON I., REP. OF THE PHILIPPINES

TAL 1880 (USAF)

CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.0
GND CON
275.8 121.9
PAR ASR
VECTORING AUTH

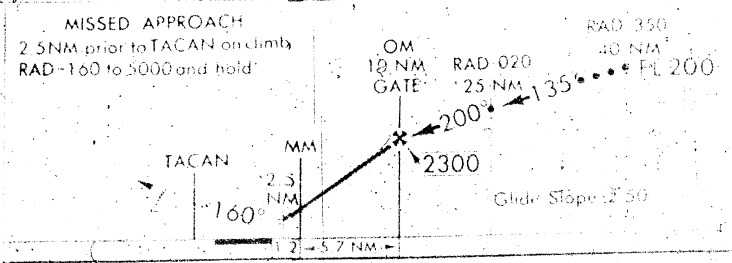


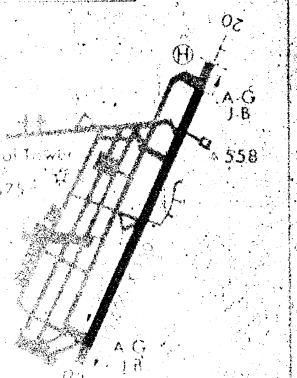
TLv 80
TA 7000
EMERG SAFE ALT 100 NM 11,600

MIN SAFE ALT 25 NM 6800

FIELD ELEV 475

MISSED APPROACH
2.5 NM prior to TACAN on climb
RAD 160 to 5000 and hold





LANDING MINIMA

Str-in-ILS	700 MSL	200 ft
Str-in TACAN	900 MSL	400 ft
Circling *	1000 MSL	500 ft
Str-in-LOC	800 MSL	300 ft

* Circling to East only

15 11'N 120 33'E

LUZON I., REP. OF THE PHILIPPINES
CLARK AB

TACAN-3/ILS

CLARK

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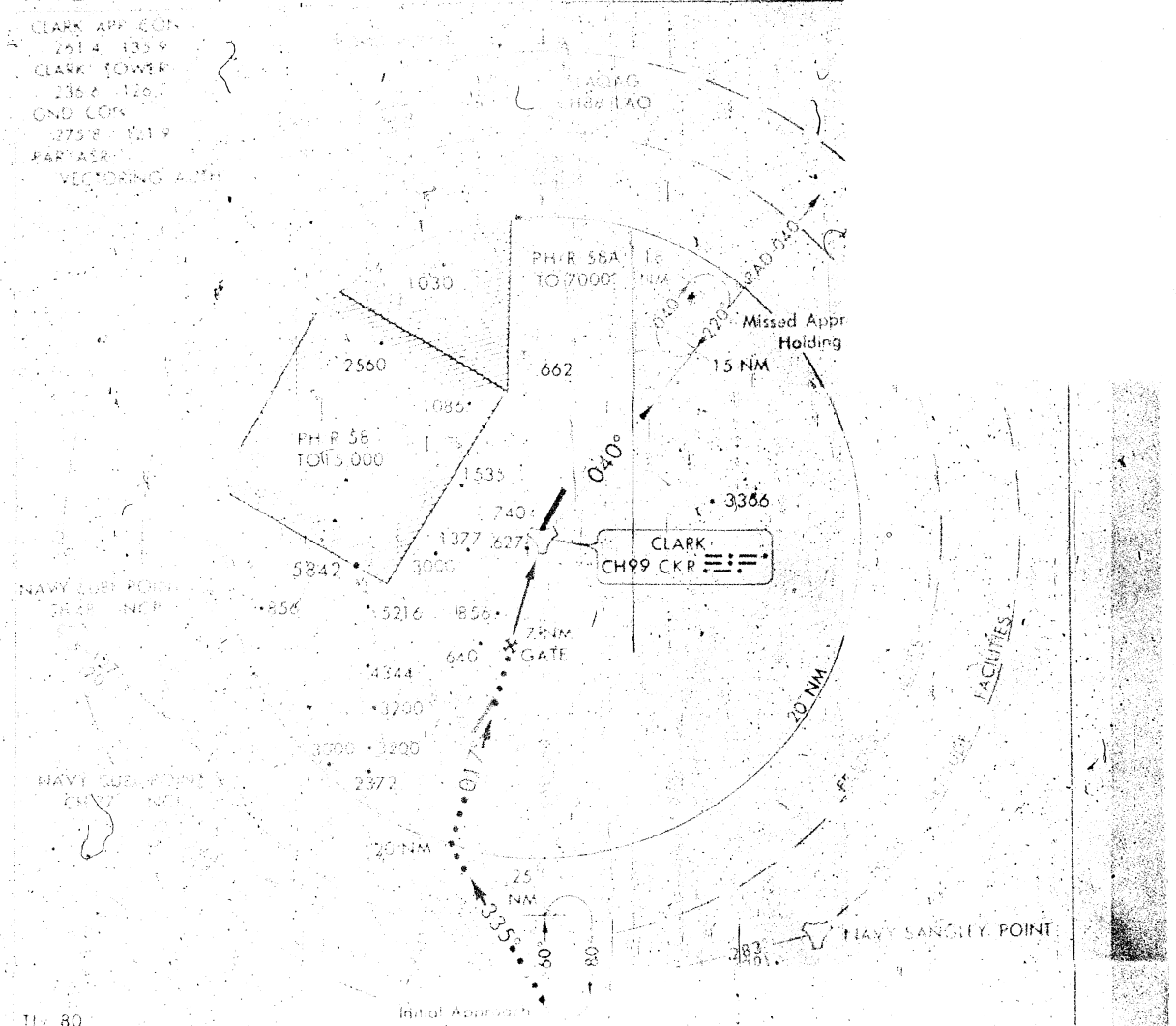
Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

CLARK

TACAN-4



TACAN-4

CLARK

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Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

TAOYUAN

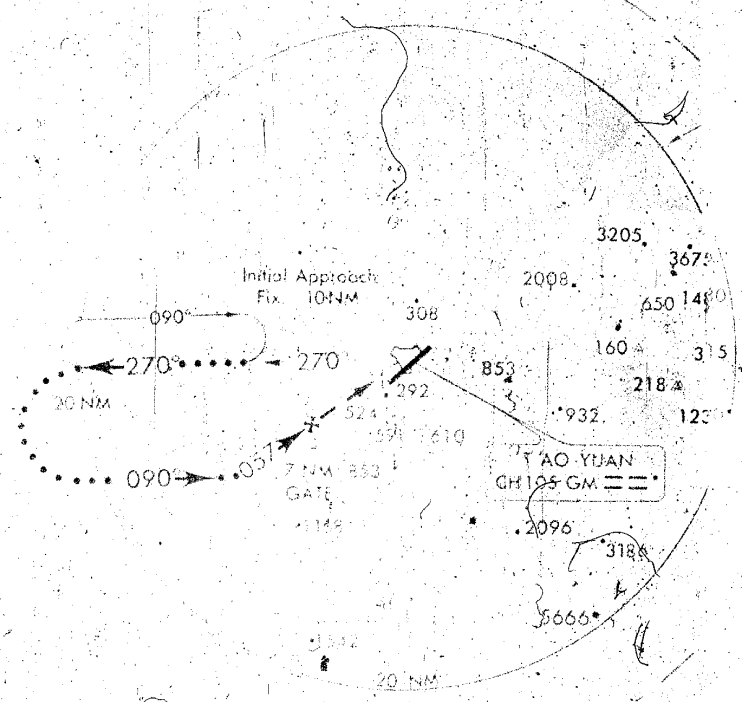
202

T'AO-YUAN A/D

T'AO-YUAN, TAIWAN, REP OF CHINA

TACAN

T'AI-PEI APP CON
363.8 119.7
GM TOWER
236.6 126.18
GND CON
275.8
PAR/ASR



TA 18,000

EMERG SAFE ALT 100 NM 15,100

MIN SAFE ALT 25 NM 8000

FIELD ELEV 147

Left turn remain within 25 NM

RAD-270
10 NM

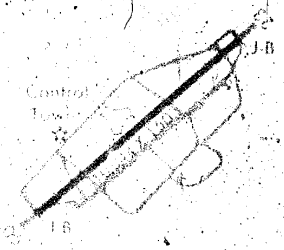
20 NM
12,000
270°
20,000

RAD-250
3000
090°

RAD-237
9 NM
057°
7 NM
GATE
1500

MISSED APPROACH
2.5 NM prior to TACAN left turn climb on RAD-270 to 3000

TACAN
2.5 NM
270°



LANDING MINIMA		
Straight-in	500 MSL	400 1
Circling ✻	600 MSL	500 1

✻ Circling to Northwest only

TACAN

25°03'N-121°14'E

T'AO-YUAN, TAIWAN, REP OF CHINA

T'AO-YUAN A/D

TAOYUAN

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

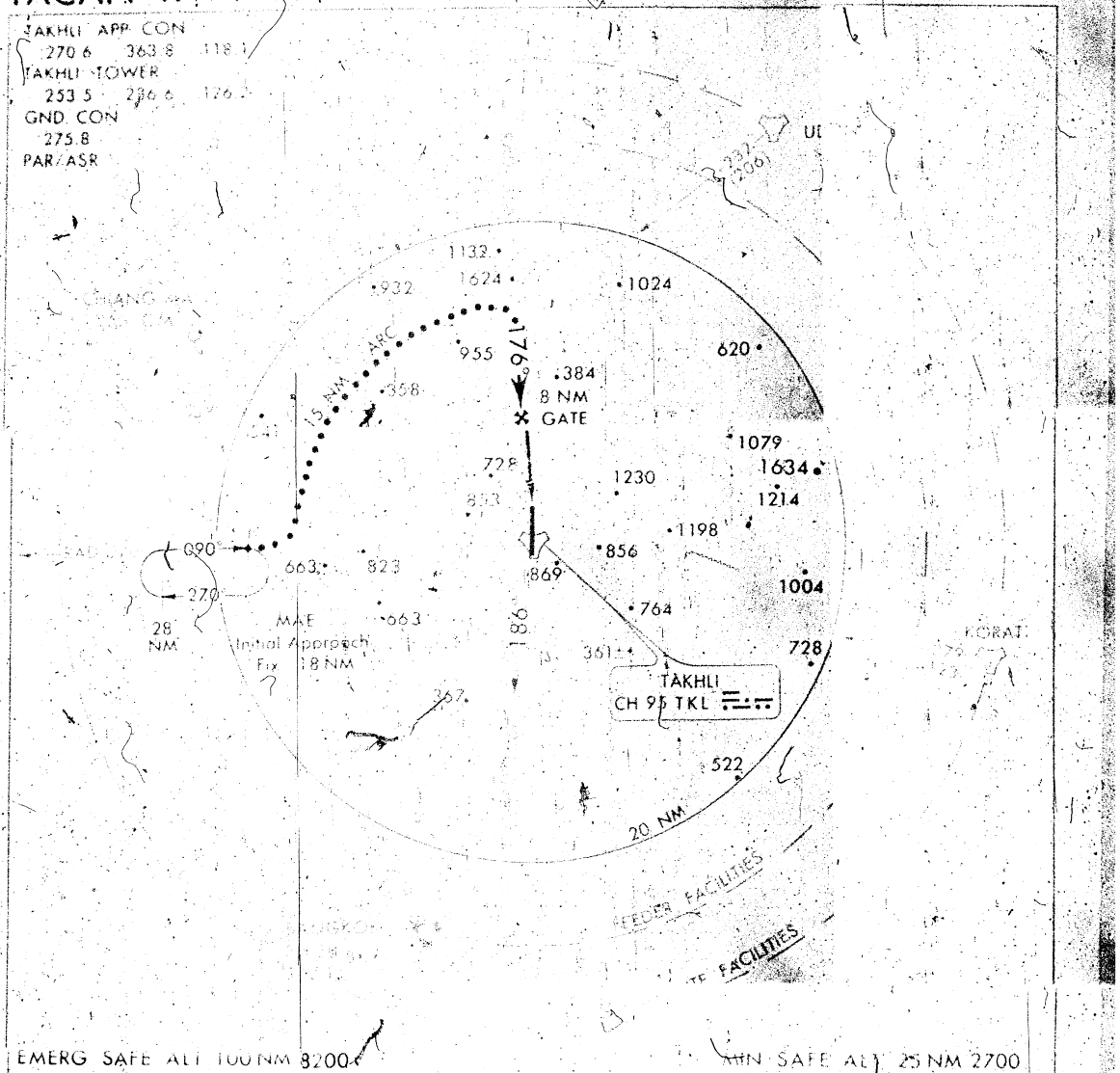
TAKHLI

TACAN-RWY 18-1

194

TAKHLI A/D
TAKHLI, THAILAND

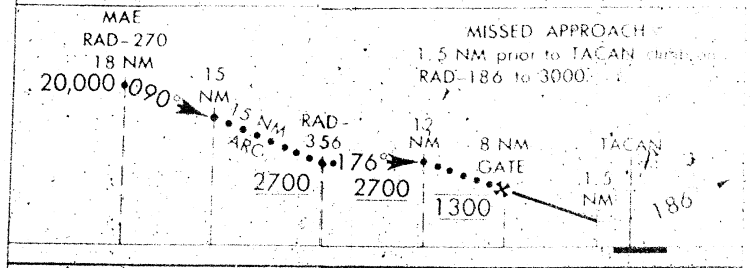
TAKHLI APP CON
270.6 363.8 118.1
TAKHLI TOWER
253.5 236.6 126.2
GND CON
275.8
PAR/ASR



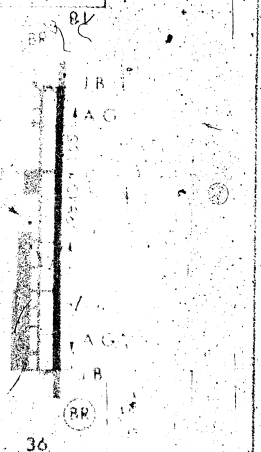
EMERG SAFE ALT 100 NM 8200

MIN SAFE ALT 25 NM 2700

FIELD ELEV 112



LANDING MINIMA		
Straight-in	400 MSL	300
Circling	NOT AUTHORIZED	



TACAN-RWY 18-1

15 16 N-100 18 E

TAKHLI, THAILAND
TAKHLI A/D

TAKHLI

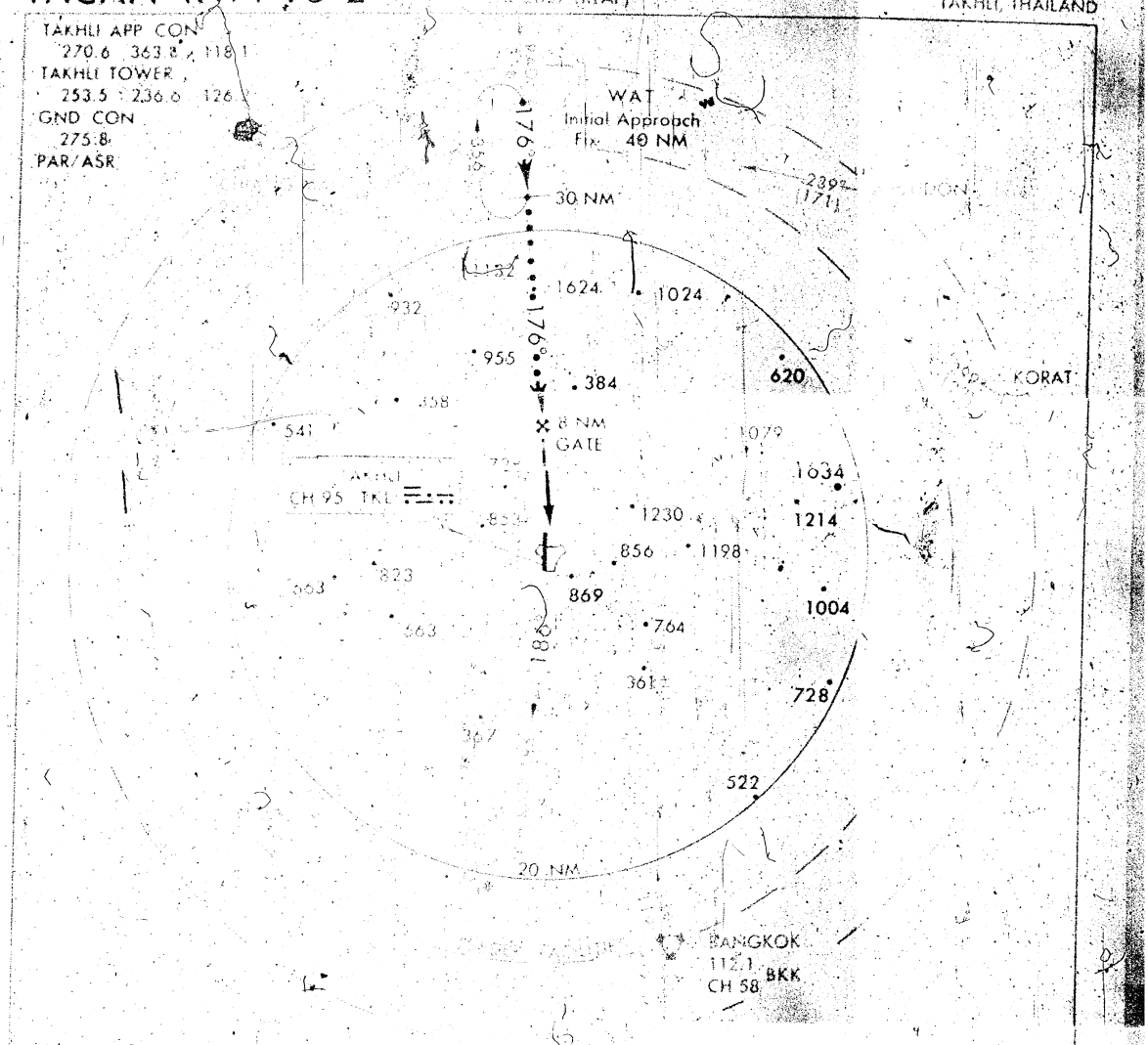
Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

TAKHLI

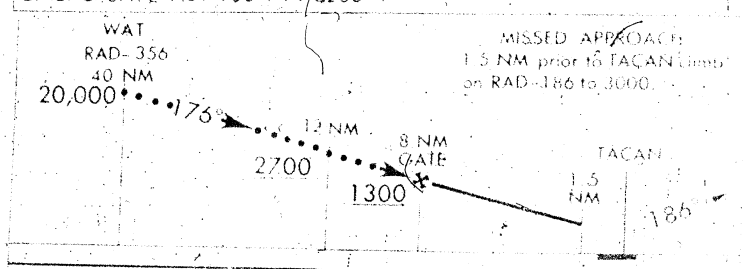
TACAN-RWY 18-2

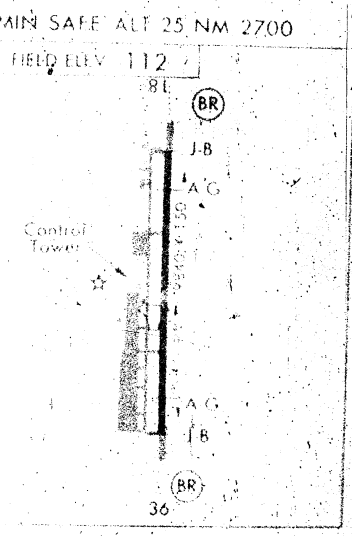
TAKHLI A/D
TAKHLI, THAILAND



EMERG SAFE ALT 100 NM 8200

MIN SAFE ALT 25 NM 2700





LANDING MINIMA		
Straight-in	400 MSL	300.1
Circling	NOT AUTHORIZED	

TACAN-RWY 18-2

15°16'N-100°18'E

195

TAKHLI, THAILAND
TAKHLI A/D

TAKHLI

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

TAKHLI

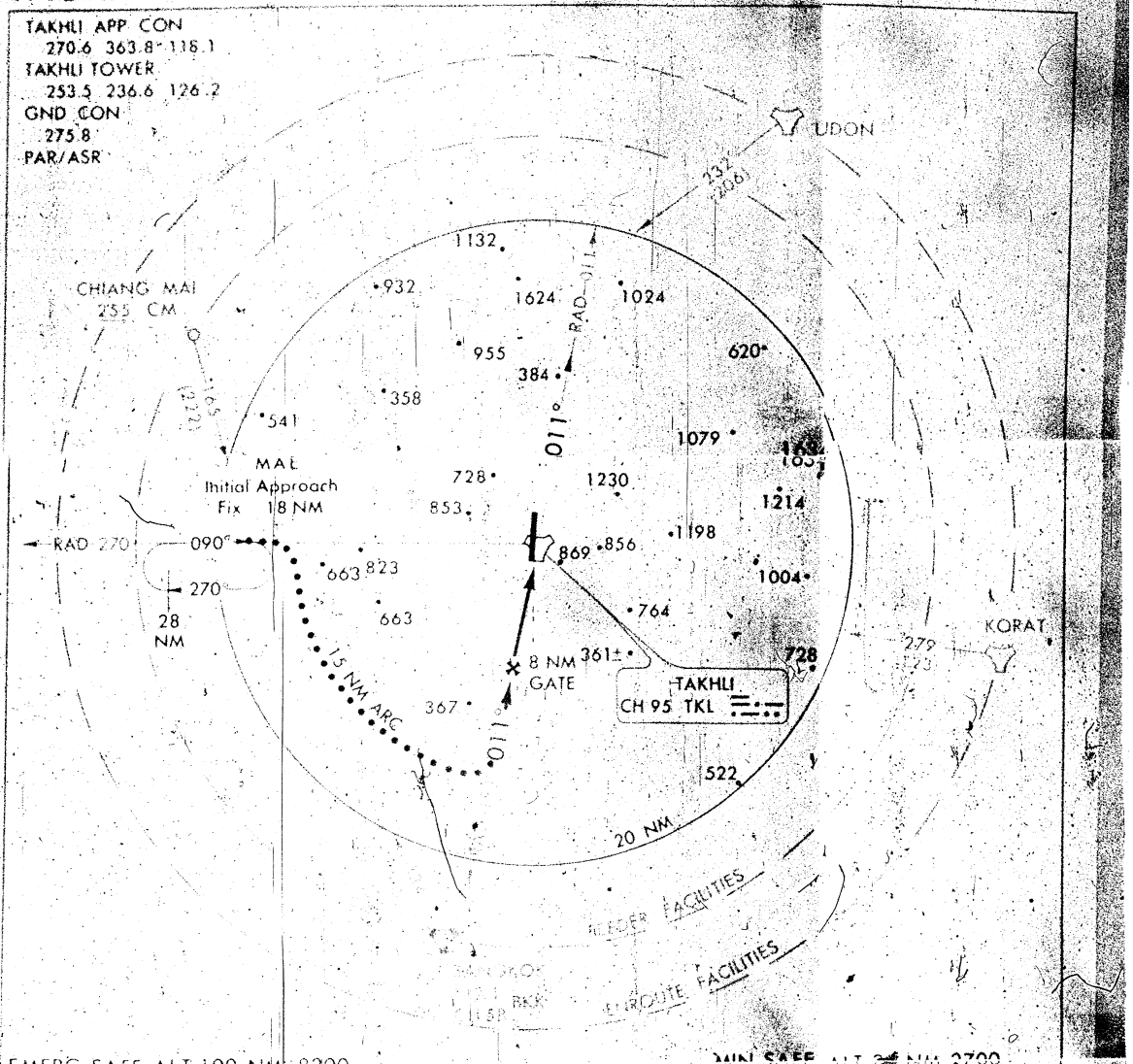
TACAN - RWY 36

196

AL 2627 (RTAF)

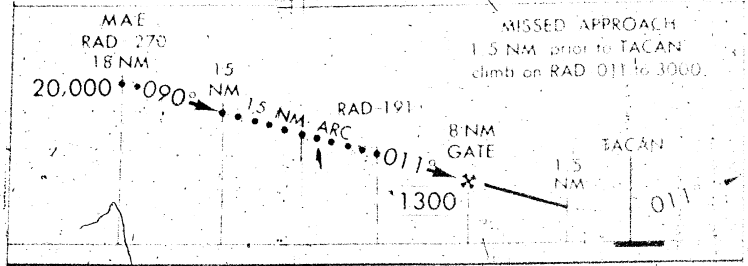
TAKHLI A/D
TAKHLI, THAILAND

TAKHLI APP CON
270.6 363.8 118.1
TAKHLI TOWER
253.5 236.6 126.2
GND CON
275.8
PAR/ASR



EMERG SAFE ALT 100 NM 8200

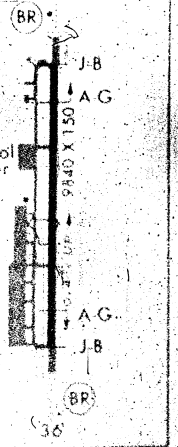
MINI SAFE ALT 25 NM 2700



MISSED APPROACH
1.5 NM prior to TACAN
climb on RAD 011 to 3000.

FIELD ELEV 112

81



LANDING MINIMA		
Straight-in	400 MSL	300/1
Circling	NOT AUTHORIZED	

TACAN-RWY 36

15°16 N-100°18 E

TAKHLI, THAILAND
TAKHLI A/D

TAKHLI

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

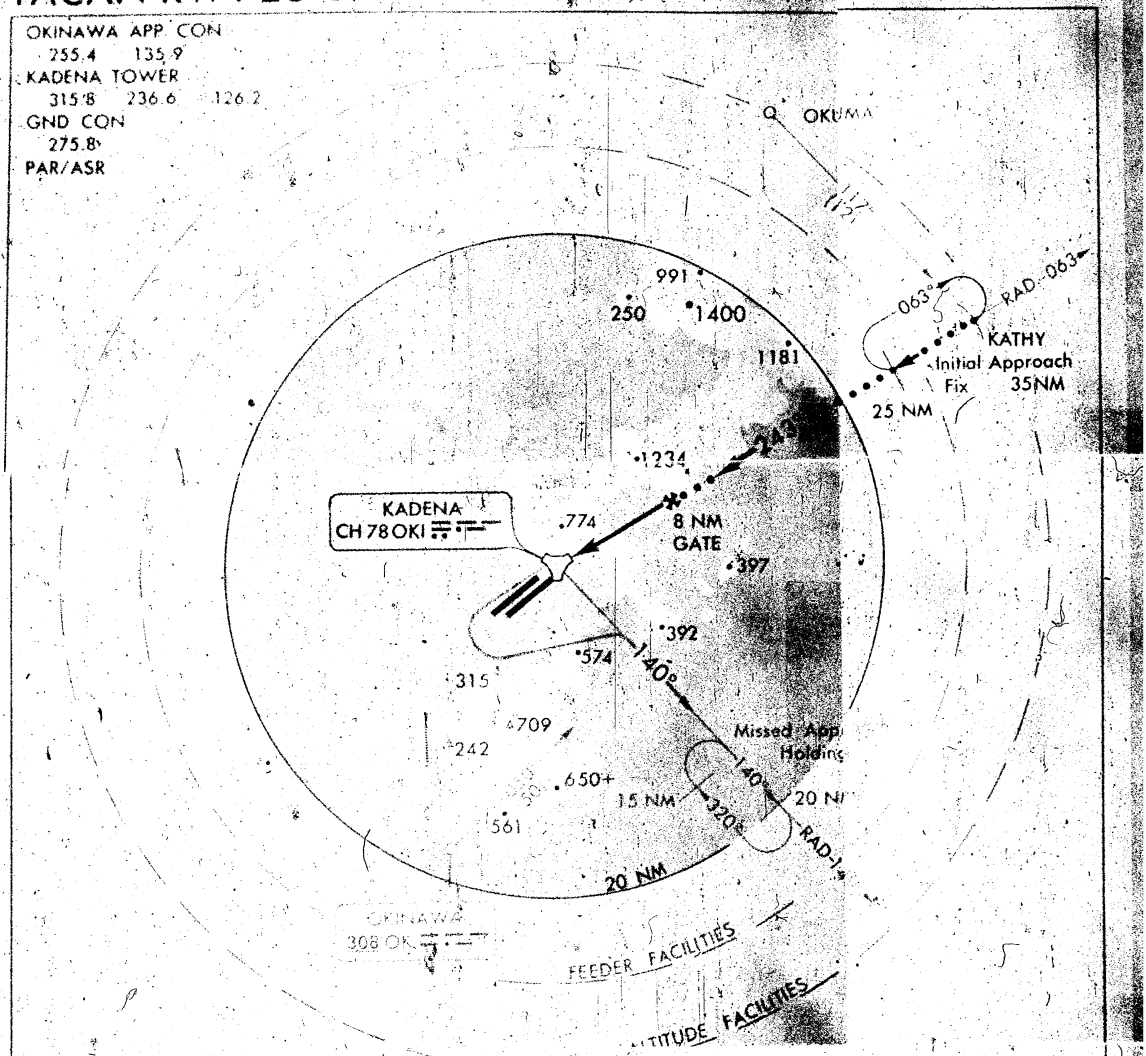
KADENA

TACAN-RWY 23-3

JAL 1457 (USAF)

KADENA AB
KADENA, OKINAWA I., RYUKYU ISLANDS

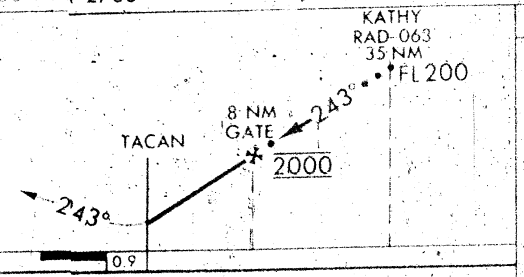
OKINAWA APP CON
255.4 135.9
KADENA TOWER
315.8 236.6 126.2
GND CON
275.8
PAR/ASR



TA 18,000
EMERG SAFE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2600

MISSED APPROACH
At TACAN climb on 243° to 2000. At 5.0 NM after TACAN left turn to intercept RAD-140 and hold.

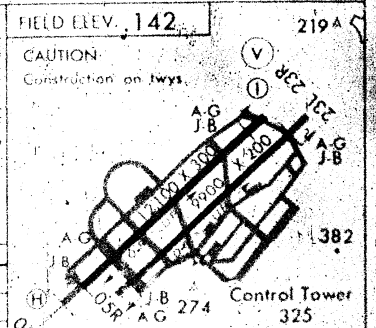


LANDING MINIMA		
Straight-in	600 MSL	500-1
Circling *	800 MSL	700-1

* Circling to East only.

FIELD ELEV. 142

CAUTION
Construction on twys.



TACAN-RWY 23-3

26°21'N-127°46'E

KADENA OKINAWA I., RYUKYU ISLANDS
KADENA AB

KADENA

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

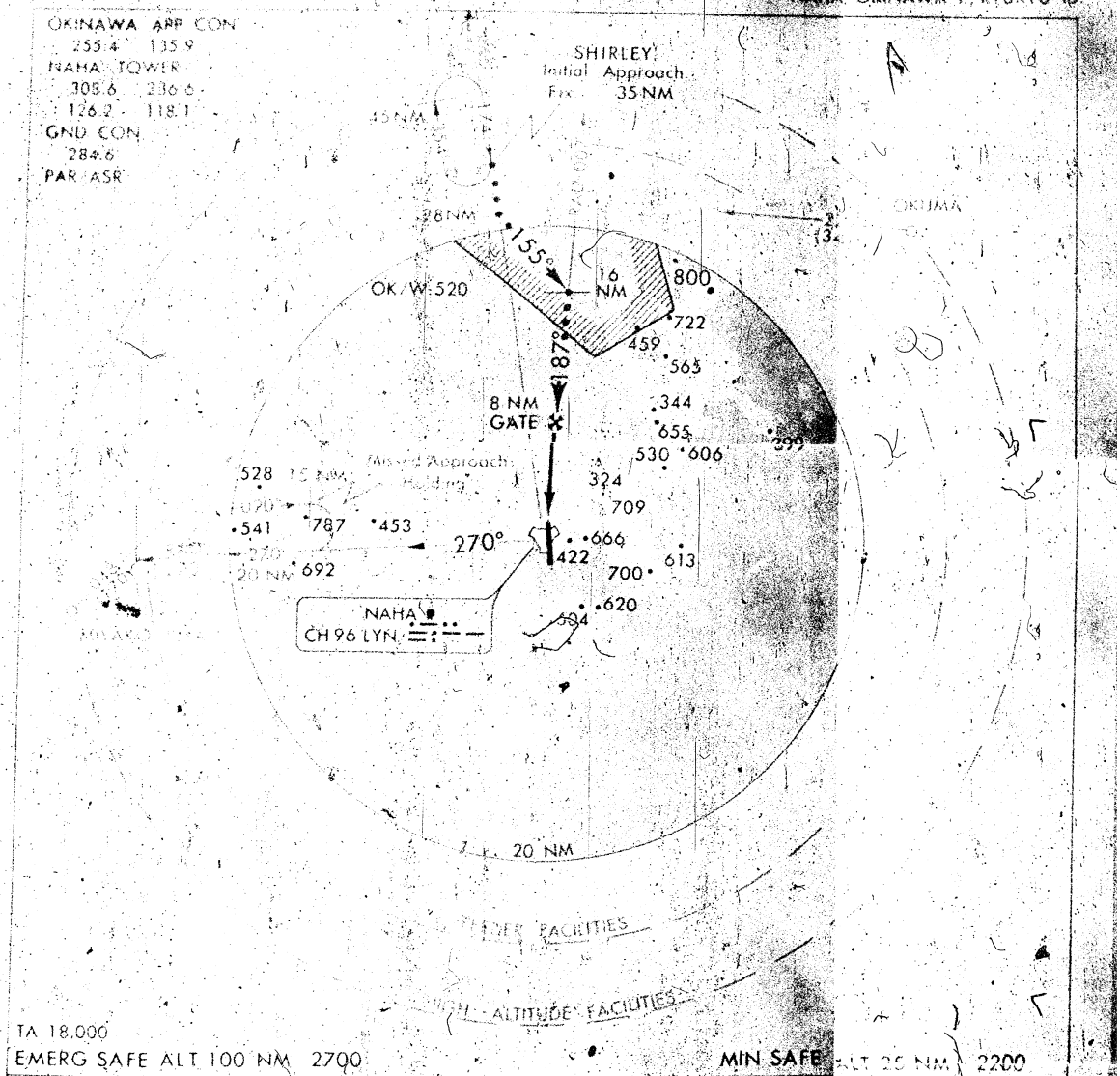
NAHA

TACAN-RWY 18

158 (USAF)

NAHA AB
NAHA, OKINAWA I., RYUKYU IS.

OKINAWA APP CON
255.4 135.9
NAHA TOWER
308.6 236.6
126.2 118.1
GND CON
284.6
PAR ASR

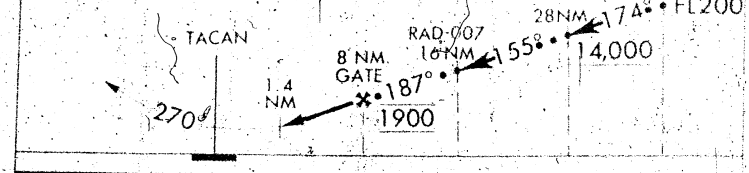


TA 18,000

EMERG SAFE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2200

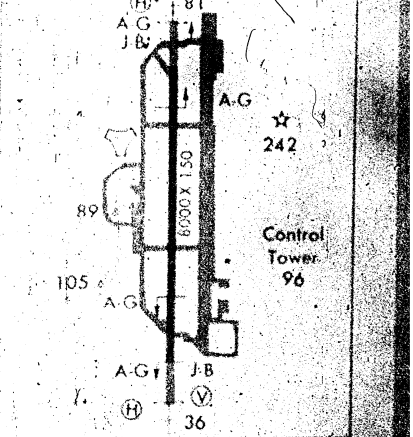
MISSED APPROACH
1.4 NM prior to TACAN, right turn climb on RAD-270 to 2000 and hold.



LANDING MINIMA		
Straight-in	400 MSL	400-1
Circling *	600 MSL	600-1

* Circling to West only

FIELD ELEV 14



TACAN-RWY 18

26°11'N-127°39'E

NAHA, OKINAWA I., RYUKYU IS.
NAHA AB

NAHA

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Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

NAHA

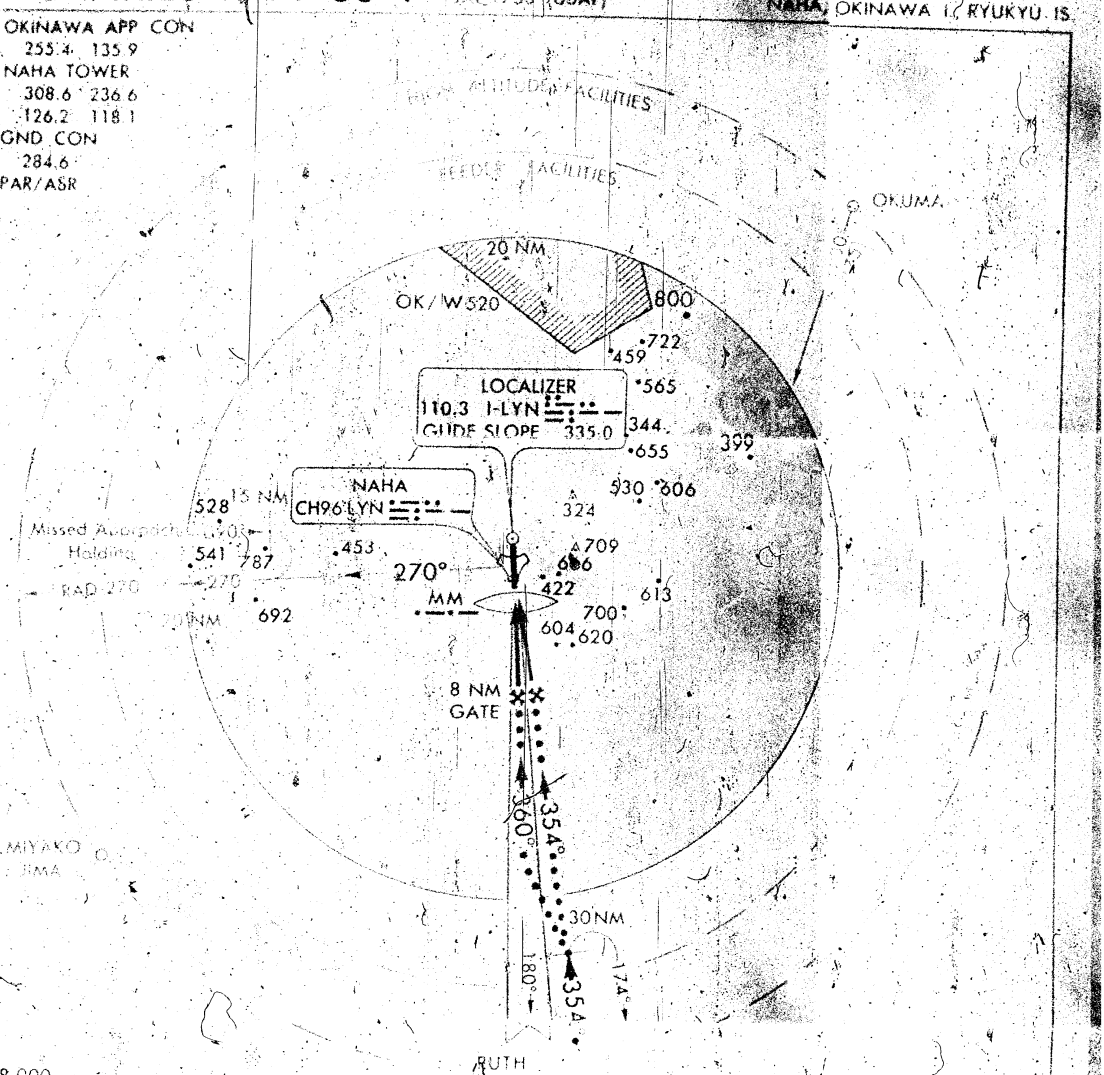
TACAN/ILS RWY 36-1

JAL 1733 (USAF)

NAHA AB

NAHA, OKINAWA I., RYUKYU IS

OKINAWA APP CON
255.4 135.9
NAHA TOWER
308.6 236.6
126.2 118.1
GND CON
284.6
PAR/ASR



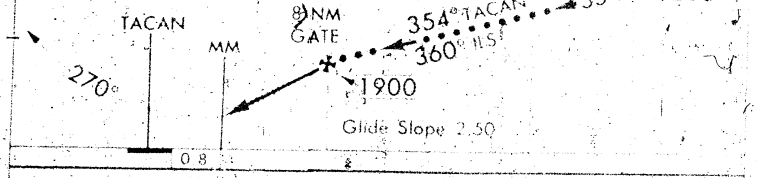
TA 18,000

EMERG SAFE ALT 100 NM 2700

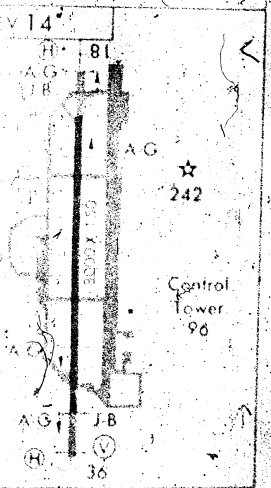
RUTH
Initial Approach
Fix 30 NM

MIN SAFE ALT 25 NM 2200

MISSED APPROACH
1.7 NM prior to TACAN left turn,
climb on RAD 270 to 2000 and hold.



FIELD ELEV 14'



LANDING MINIMA

Str-in-ILS	314 MSL	300-1
Str-in-TACAN	500 MSL	500-1
Circling*	600 MSL	600-1
Str-in-LOC	400 MSL	400-1

*Circling to West only.

TACAN/ILS RWY 36-1

26 11 N-127 39 E

159

NAHA, OKINAWA I., RYUKYU IS

NAHA AB

NAHA

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

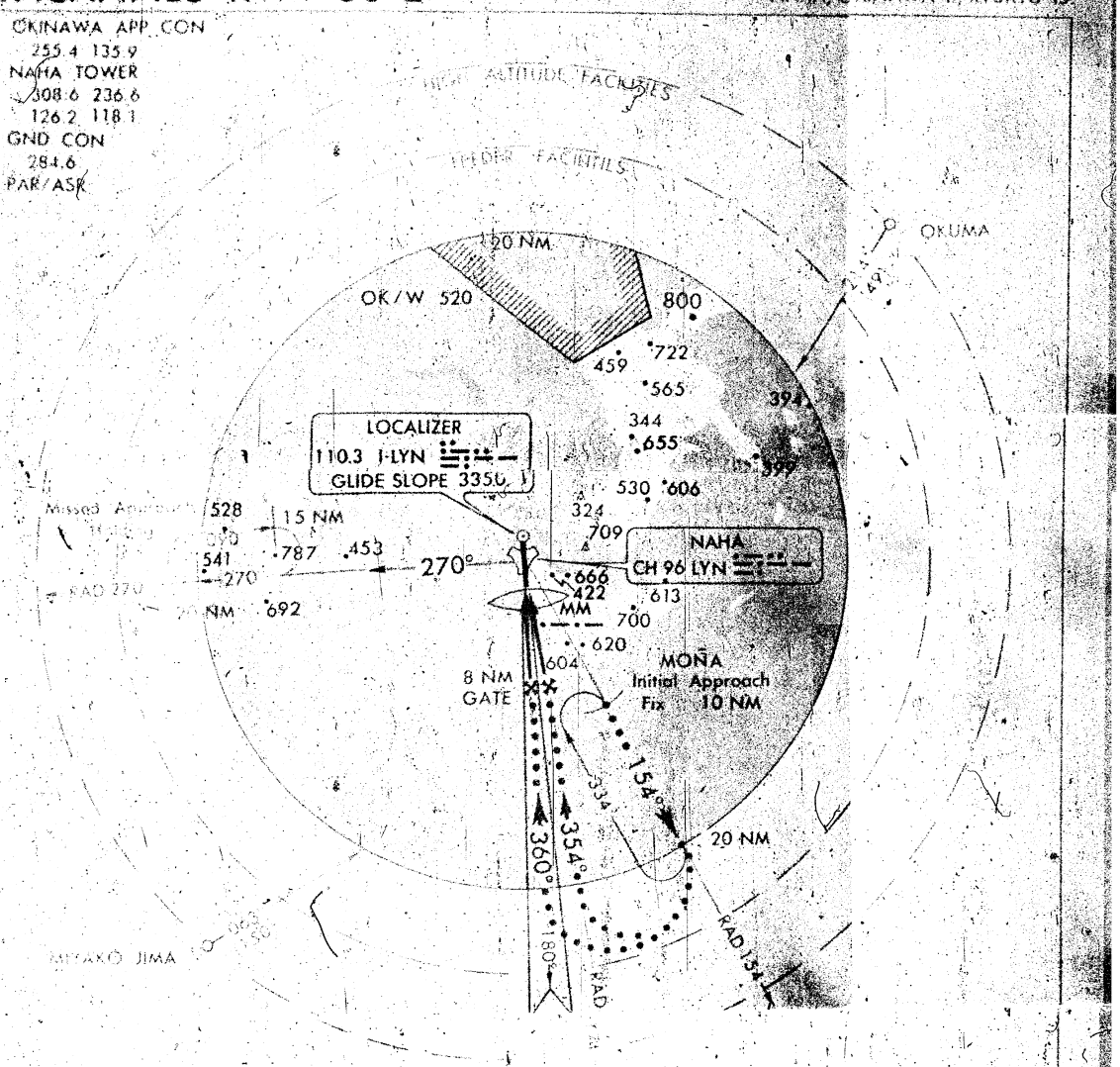
NAHA

TACAN/ILS-RWY 36-2

160
JAL 1733 (USAF)

NAHA AB
NAHA, OKINAWA I., RYUKYU IS.

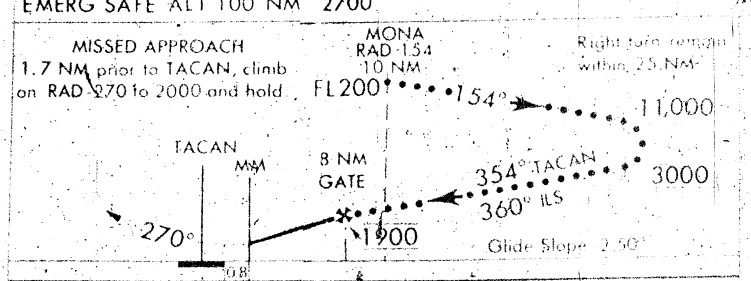
OKINAWA APP CON
255.4 135.9
NAHA TOWER
308.6 236.6
126.2 118.1
GND CON
284.6
PAR/ASR



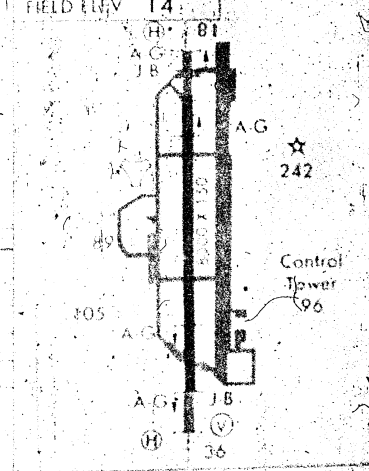
TA 18,000
EMERG SAFE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2200

MISSED APPROACH
1.7 NM prior to TACAN, climb on RAD 270 to 2000 and hold



FIELD ELEV 14'



LANDING MINIMA

Str-in-ILS	314 MSL	300-1
Str-in-TACAN	500 MSL	500-1
Str-in-LOC	400 MSL	400-1
Circling ✻	600 MSL	600-1

✻ Circling to West only

TACAN/ILS-RWY 36-2 26-11'N 127°39'E

NAHA, OKINAWA I., RYUKYU IS.
NAHA AB

NAHA

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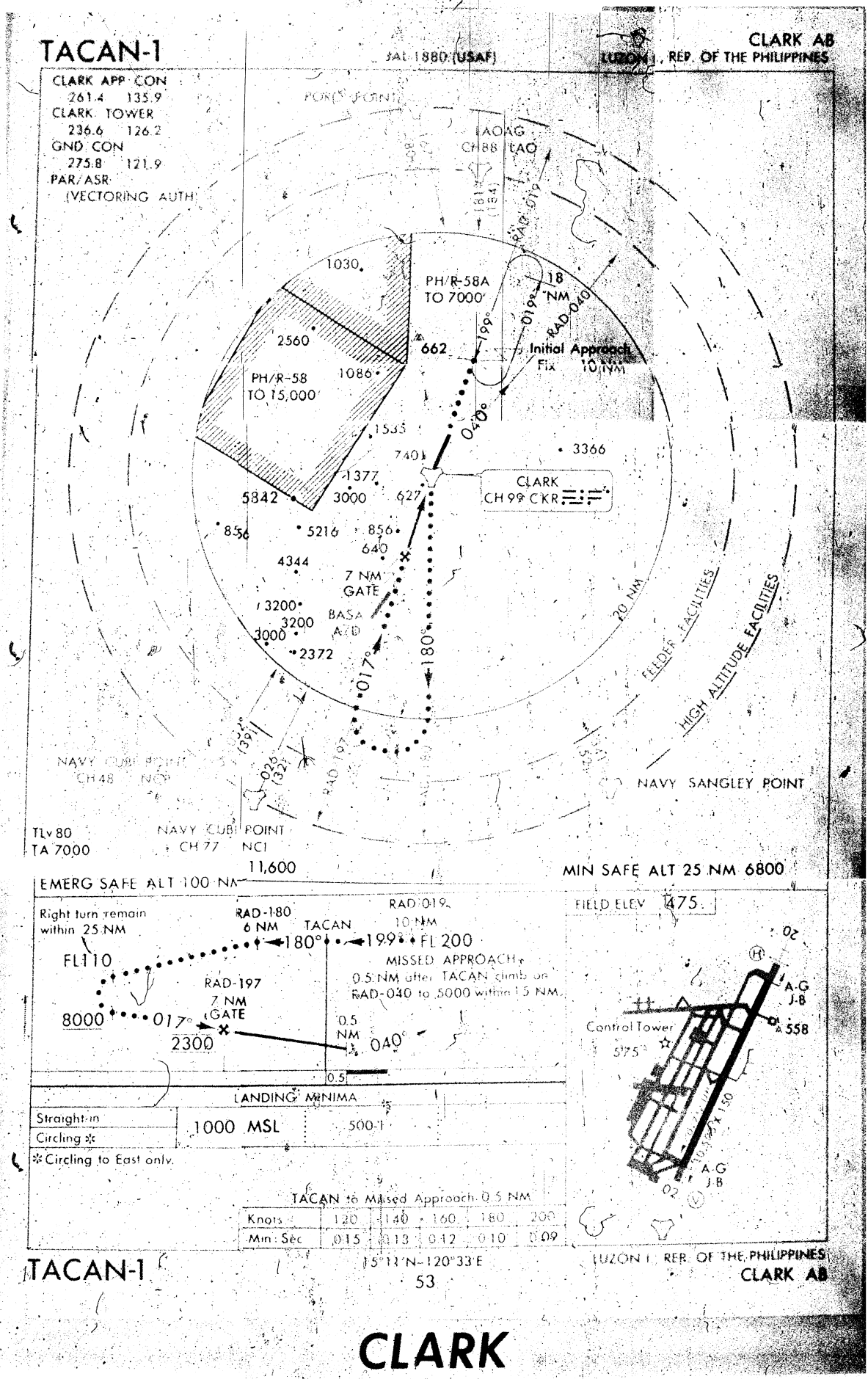
CLARK



CLARK

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

CLARK

TACAN-2/ILS

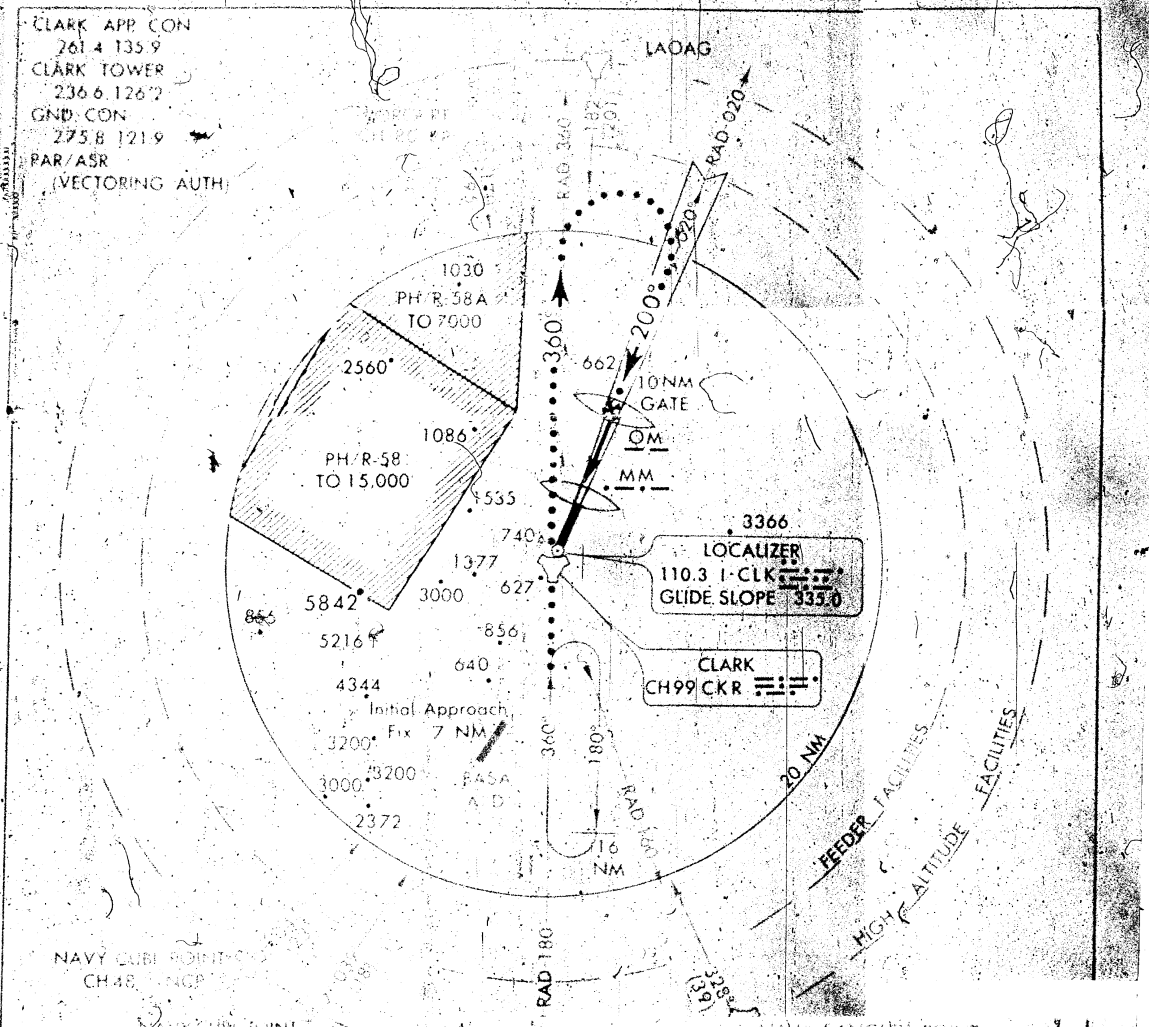
54

JAL 1880 (USAF)

CLARK AB

LUZON I., REP. OF THE PHILIPPINES

CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.2
GND CON
275.8 121.9
PAR/ASR
(VECTORING AUTH)

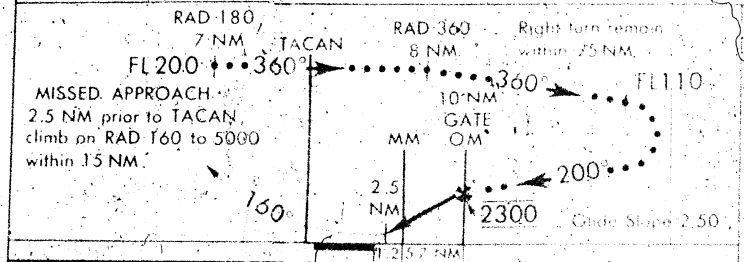


TLv 80
TA 7000

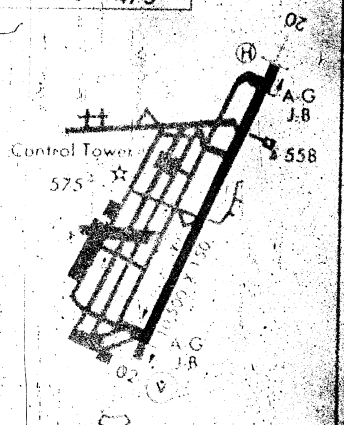
EMERG SAFE ALT 100 NM 11,600

MIN SAFE ALT 25 NM 6800

FIELD ELEV 475



MISSED APPROACH:
2.5 NM prior to TACAN, climb on RAD 160 to 5000 within 15 NM.



LANDING MINIMA

Str-in-ILS	700 MSL	200'
Str-in-TACAN	900 MSL	400-1
Circling *	1000 MSL	500-1
Str-in-LOC	800 MSL	300-1

*Circling to East only.

TACAN-2/ILS

15°11'N-120°33'E

LUZON I., REP. OF THE PHILIPPINES

CLARK AB

CLARK

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Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

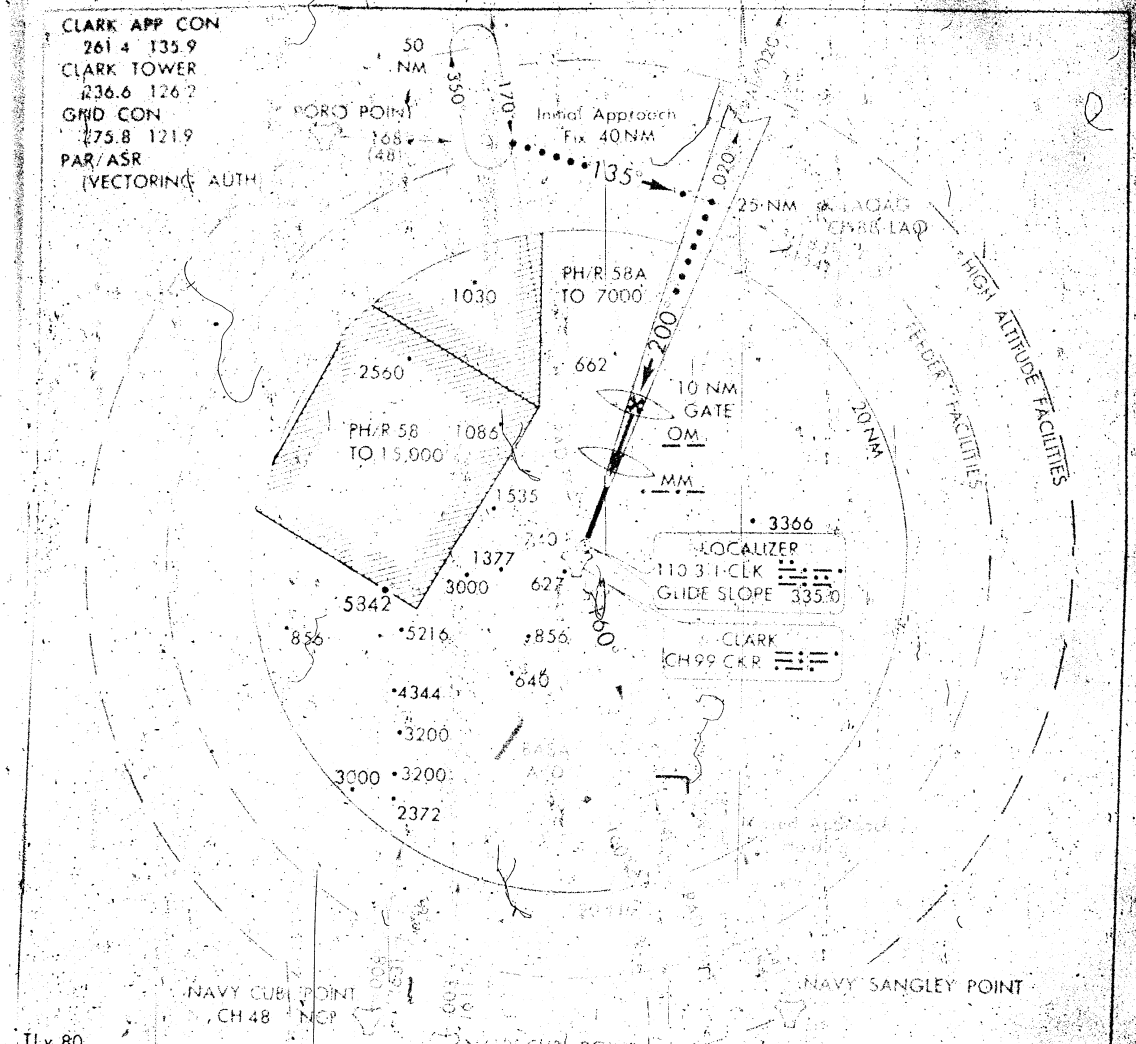
CLARK

TACAN-3/ILS

JAL-1880 (USAF)

CLARK AB
LUZON I., REP. OF THE PHILIPPINES

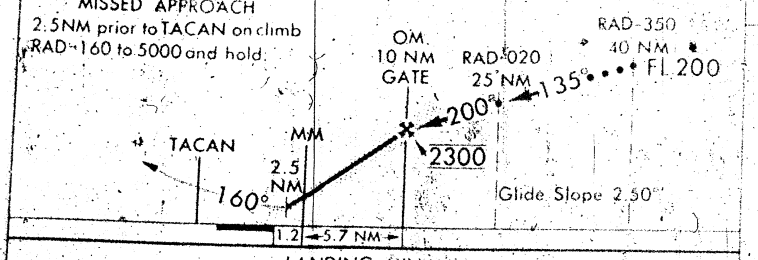
CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.2
GND CON
275.8 121.9
PAR/ASR
(VECTORING AUTH)



TLv 80
TA 7000
EMERG SAFE ALT 100 NM 11,600

MIN SAFE ALT 25 NM 6800

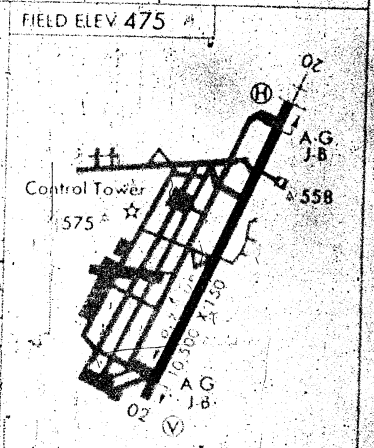
MISSED APPROACH
2.5NM prior to TACAN on climb
RAD-160 to 5000 and hold.



LANDING MINIMA		
Str-in-ILS	700 MSL	200-½
Str-in-TACAN	900 MSL	400-1
Circling *	1000 MSL	500-1
Str-in-LOC	800 MSL	300-1

* Circling to East only.

FIELD ELEV 475



TACAN-3/ILS

15°11'N-120°33'E

LUZON I., REP. OF THE PHILIPPINES
CLARK AB

CLARK

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

Approved For Release 2006/11/08 : CIA-RDP69B00041R000300020063-5

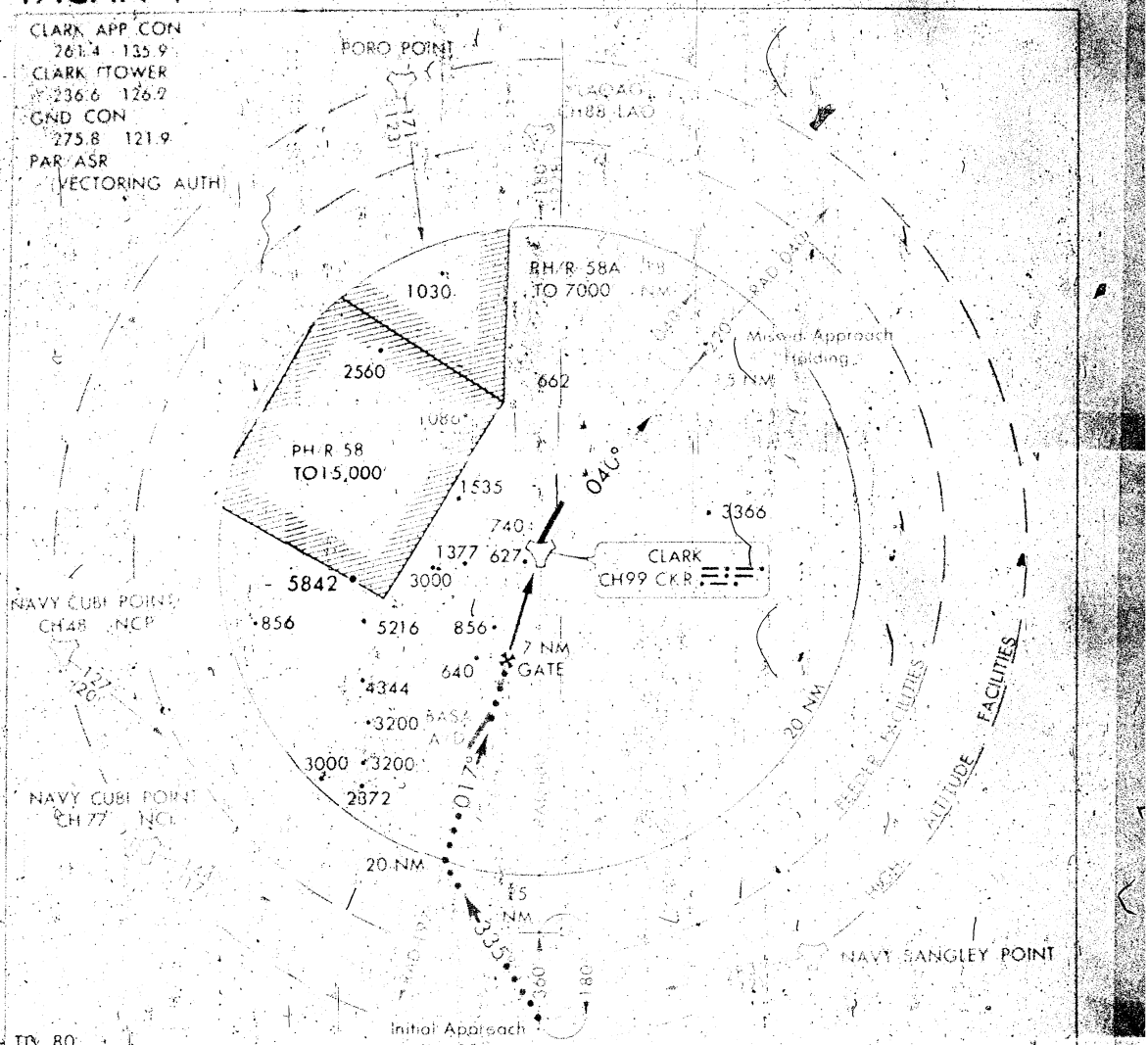
CLARK

TACAN-4

56
JAL 1880 (USAF)

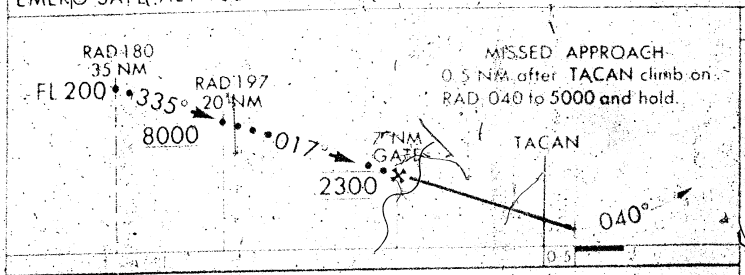
CLARK A B
LUZON I., REP. OF THE PHILIPPINES

CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.9
GND CON
275.8 121.9
PAR ASR
VECTORING AUTH



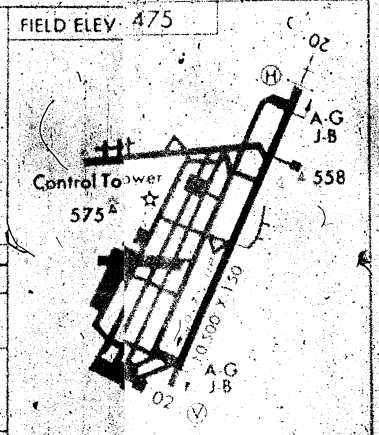
EMERG SAFE ALT 100 NM 11600

MIN SAFE ALT 25 NM 6800



MISSED APPROACH
0.5 NM after TACAN climb on RAD 040 to 5000 and hold.

FIELD ELEV 475



LANDING MINIMA		
Straight-in	1000 MSL	500-1
Circling*		

* Circling to East only

TACAN to Missed Approach 0.5 NM

Knots	120	140	160	180	200
Min. Sec	0:15	0:13	0:12	0:10	0:09

15°11'N–120°33'E

LUZON I., REP. OF THE PHILIPPINES
CLARK A B

TACAN-4

CLARK

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TAOYUAN

TACAN

202

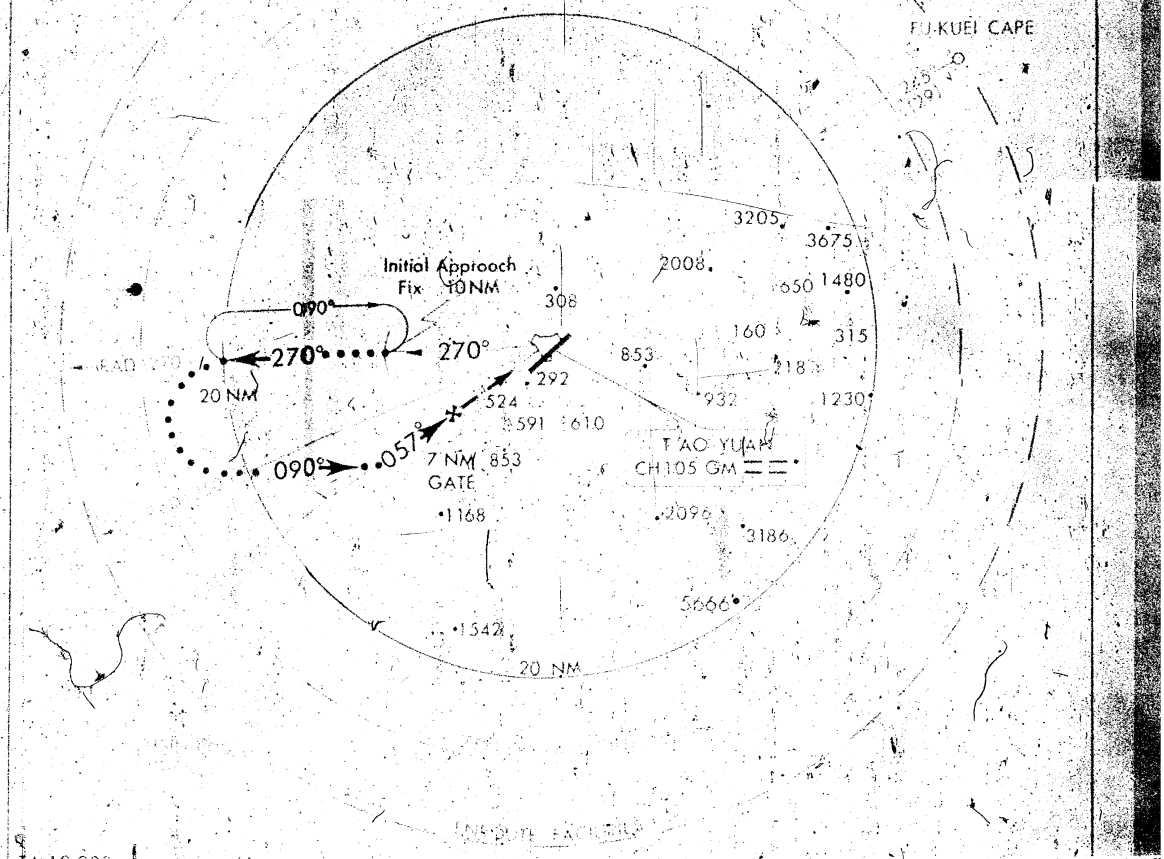
JAL-2224 (USAF)

T'AO-YUAN A/D

T'AO YUAN, TAIWAN, REP OF CHINA

T'AI-PEI APP CON
363.8 119.7
GM TOWER
236.6 126.18
GND CON
275.8
PAR/ASR

FU-KUEI CAPE



TA 18,000

EMERG SAFE ALT 100 NM 15,100

MIN SAFE ALT 25 NM 8000

FIELD ELEV 147

Left turn remain within 25 NM

RAD-270
10 NM
20,000
270°
20 NM
12,000

RAD-250
3000
090°

RAD-237
9 NM
057°

7 NM GATE
1500

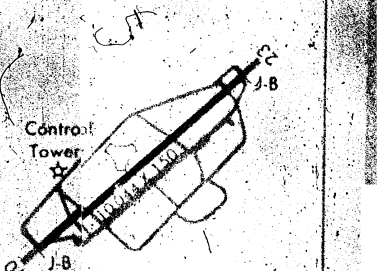
2.5 NM

TACAN
270°

MISSED APPROACH
2.5 NM prior to TACAN left turn, climb on RAD-270 to 3000.

LANDING MINIMA		
Straight-in	500 MSL	400-1
Circling *	600 MSL	500-1

* Circling to Northwest only



25°03'N-121°14'E

T'AO YUAN, TAIWAN, REP OF CHINA

TACAN

T'AO YUAN A/D

TAOYUAN

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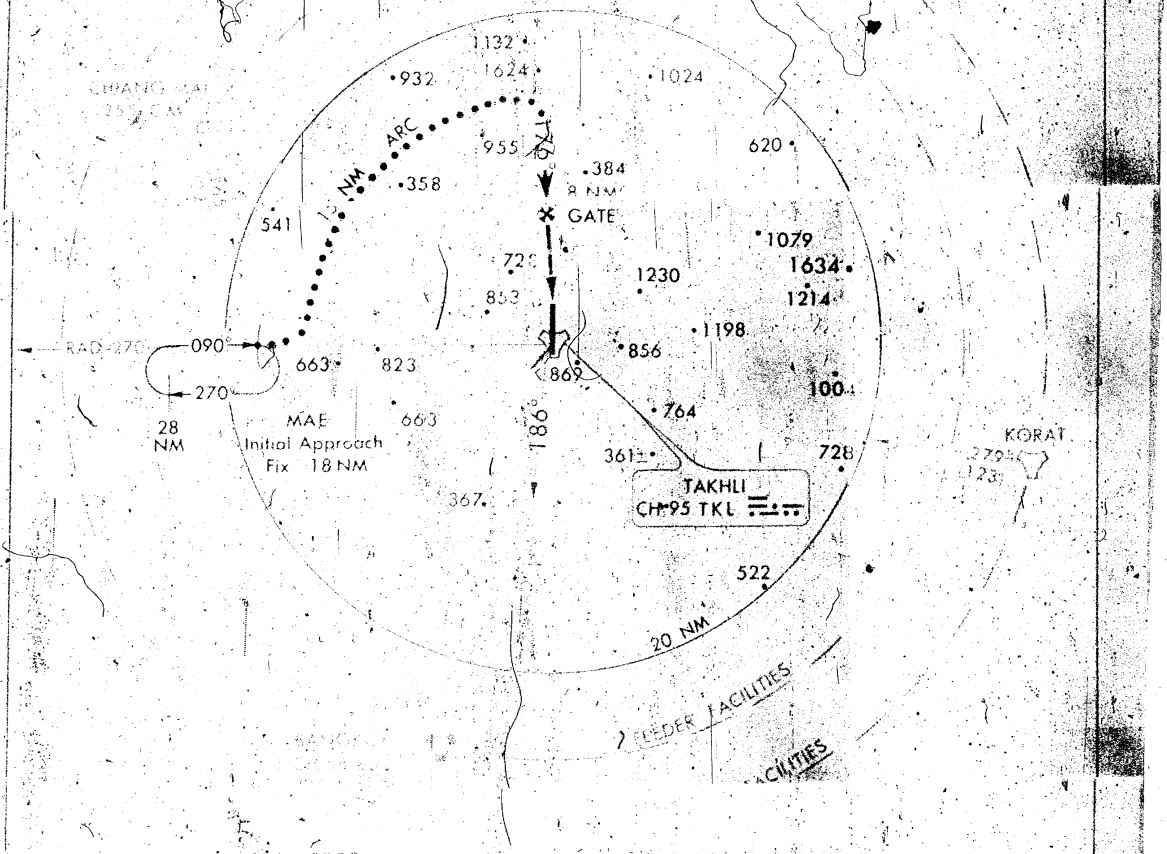
TAKHLI

TACAN-RWY 18-1

194

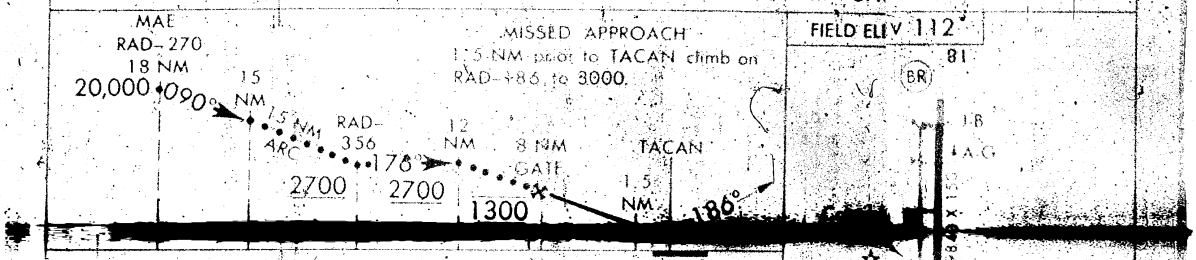
TAKHLI A/D
TAKHLI, THAILAND

TAKHLI APP CON
270.6 363.8 118.1
TAKHLI TOWER
253.5 236.6 126.2
GND CON
275.8
PAR/ASR



EMERG SAFE ALT 100 NM 8200

MIN SAFE ALT 25 NM 2700



LANDING MINIMA		
Straight-in	400 MSI	300
Circling	NOT AUTHORIZED	

TACAN-RWY 18-1

15°16'N-100°18'E

TAKHLI, THAILAND
TAKHLI A/D

TAKHLI

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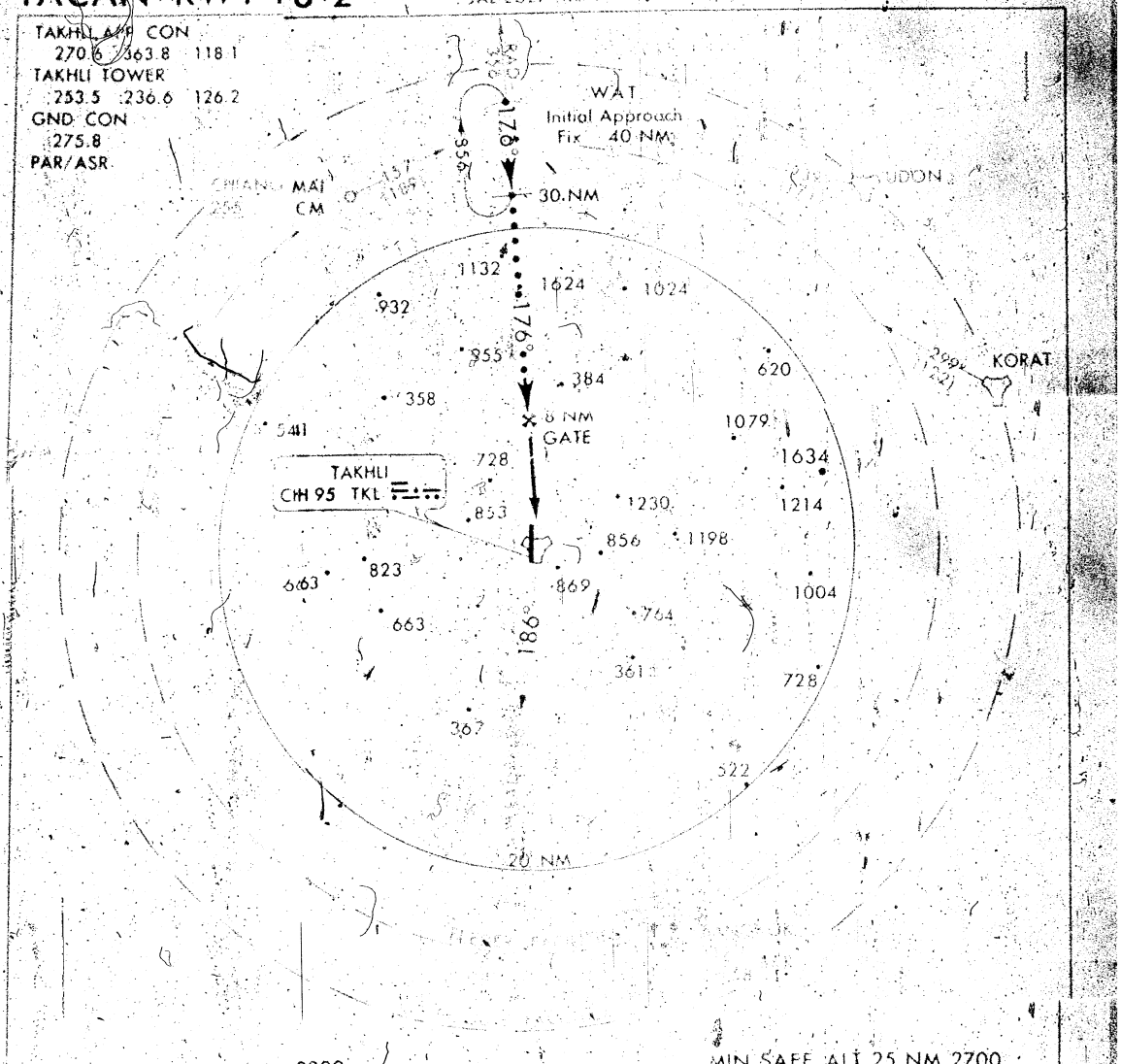
TAKHLI

TACAN-RWY 18-2

TAKHLI A/D
TAKHLI, THAILAND

TAKHLI APP CON
270.6 363.8 118.1
TAKHLI TOWER
253.5 236.6 126.2
GND CON
275.8
PAR/ASR



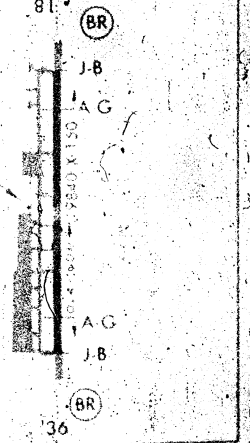
EMERG SAFE ALT 100 NM 8200

MIN SAFE ALT 25 NM 2700

WAT
RAD-356
40 NM
20,000
176°
12 NM
2700
8 NM GATE
1300
TACAN
8.5 NM
186°

MISSED APPROACH
1.5 NM prior to TACAN climb on RAD-186 to 3000

FIELD ELEV 112



LANDING MINIMA

Straight-in	400 MSL	300-1
Circling	NOT AUTHORIZED	

TACAN-RWY 18-2

15°16'N-100°18'E

TAKHLI, THAILAND
TAKHLI A/D

195

TAKHLI

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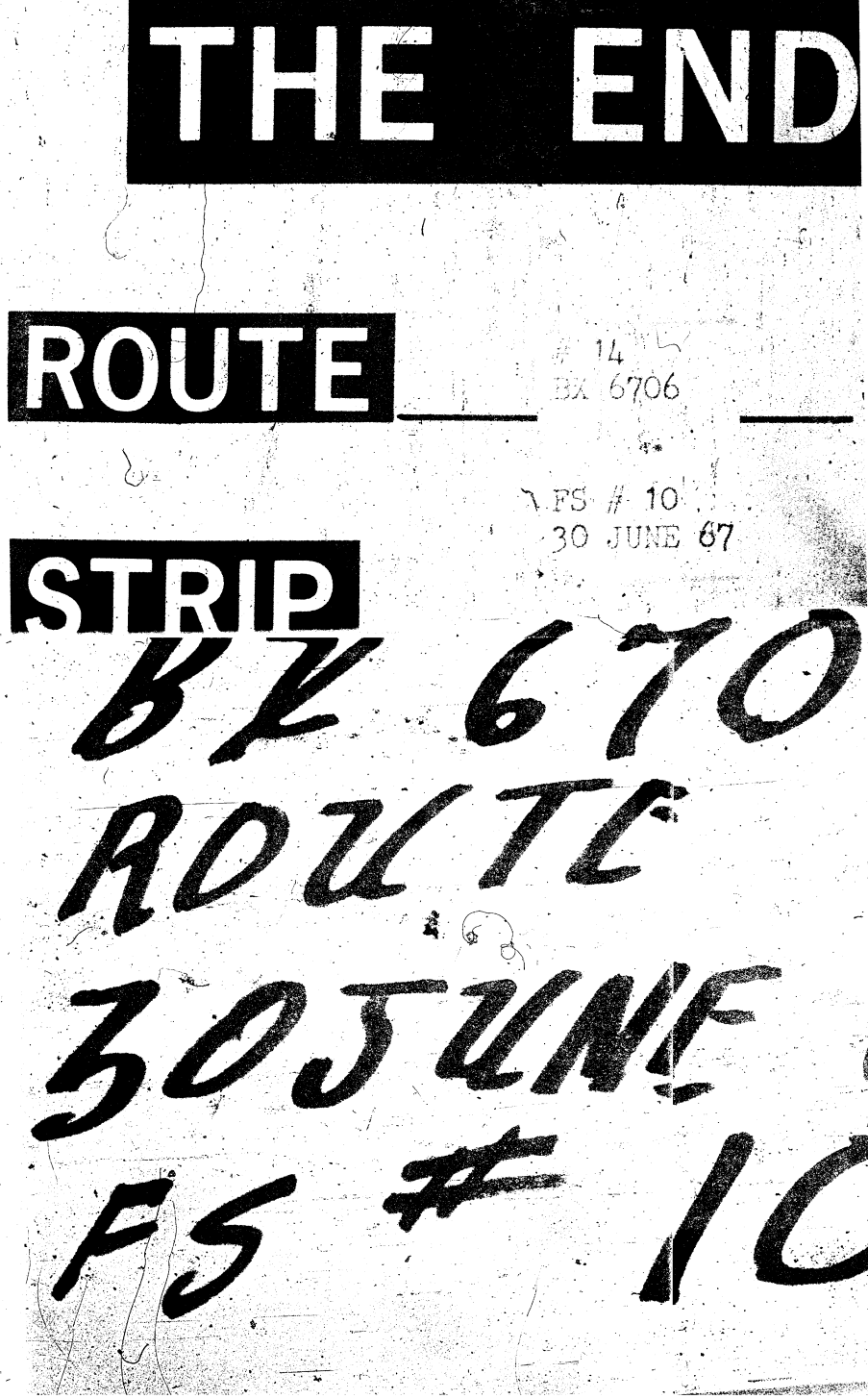

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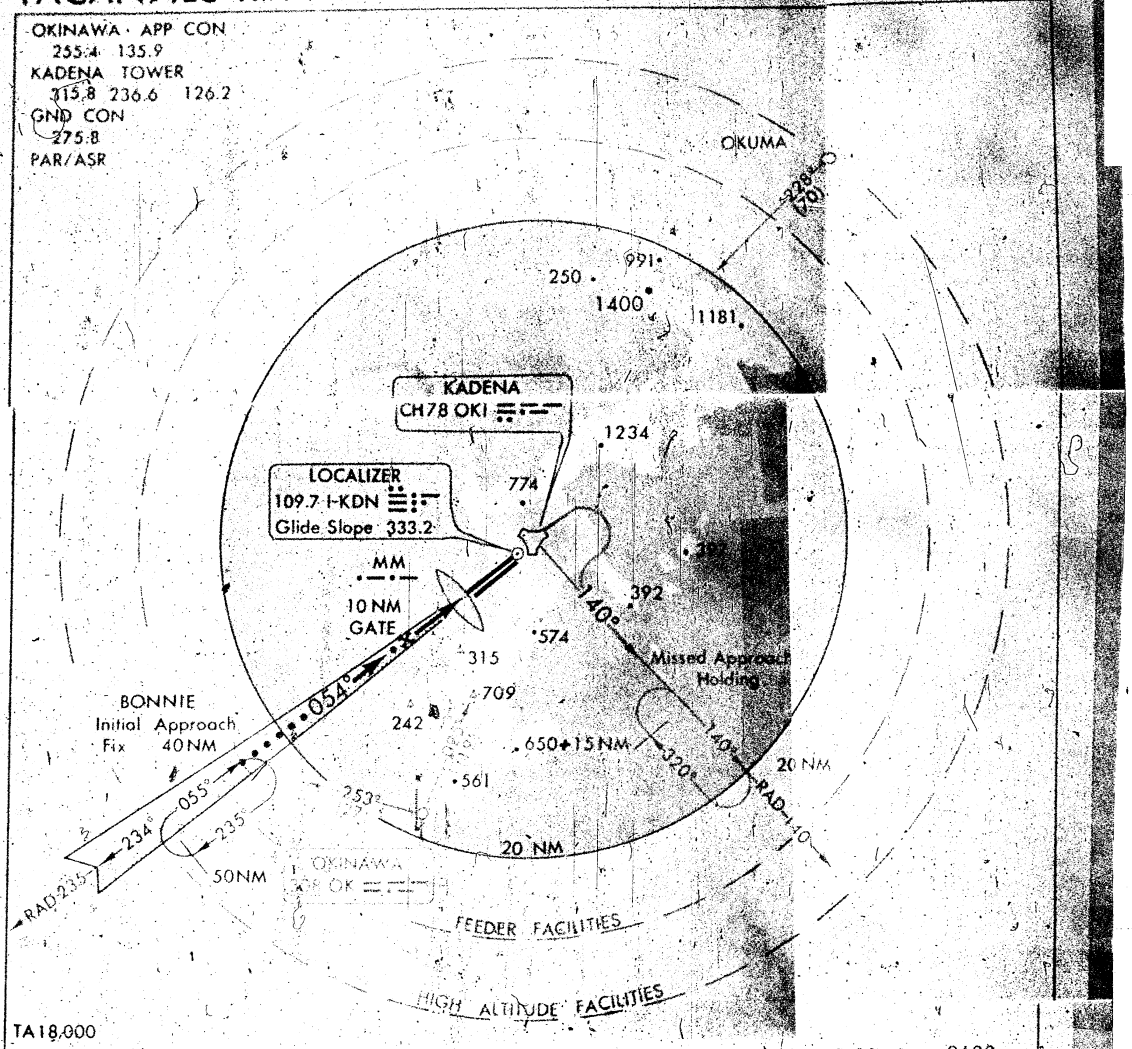
KADENA

TACAN/ILS-RWY 05-1

100
JAL-1457 (USAF)

KADENA AB
KADENA, OKINAWA I., RYUKYU ISLANDS

OKINAWA · APP CON
255.4 135.9
KADENA TOWER
315.8 236.6 126.2
GND CON
275.8
PAR/ASR



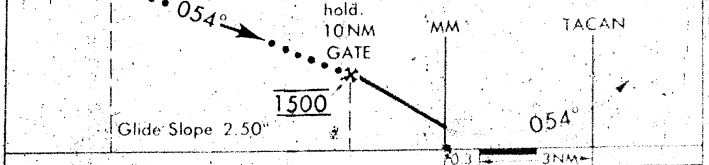
TA 18,000

EMERG SAFE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2600

BONNIE
RAD-235
40 NM
FL200

MISSED APPROACH
At Min Alt climb on 054° to 2000 / 2.0 NM after "OKI" TACAN right turn intercept RAD-140 and hold.

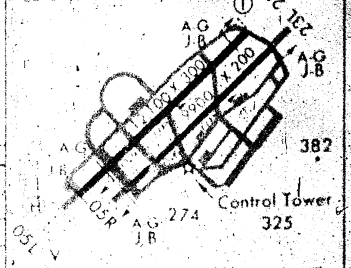


LANDING MINIMA		
Str-in-ILS	342 MSL	200 ½ or RVR 24
Str-in-TACAN	400 MSL	300-1
✲ Circling	800 MSL	700-1

✲Circling to East only.

FIELD ELEV 142

CAUTION
Construction on twys



TACAN/ILS-RWY 05-1 26°21'N-127°46'E KADENA OKINAWA I., RYUKYU ISLANDS
KADENA AB

KADENA

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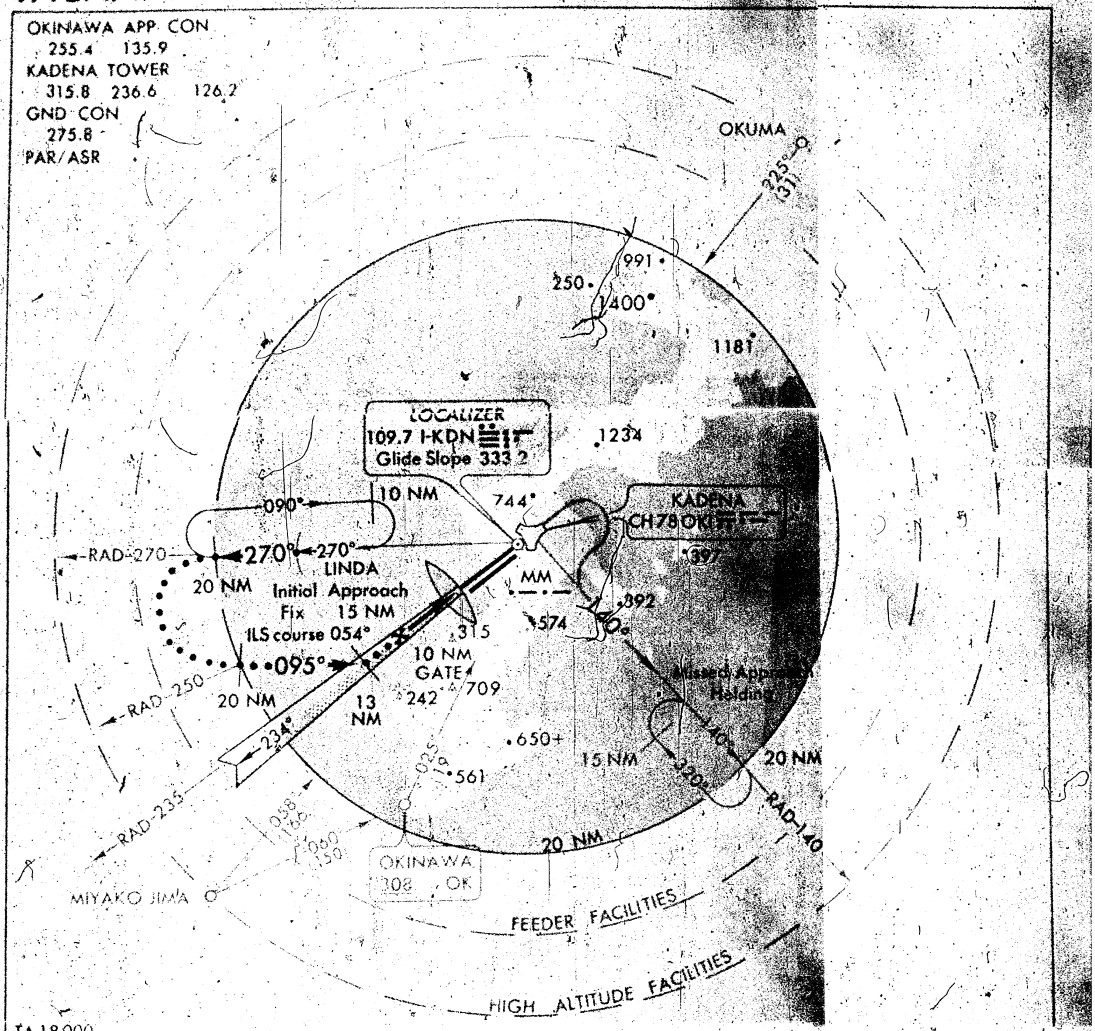
KADENA

TACAN/ILS-RWY 05-2

JAL-1457 (USAF)

KADENA AB
KADENA, OKINAWA I., RYUKYU ISLANDS

OKINAWA APP CON
255.4 135.9
KADENA TOWER
315.8 236.6 126.2
GND CON
275.8
PAR/ASR



TA 18,000

EMERG SAFE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2600

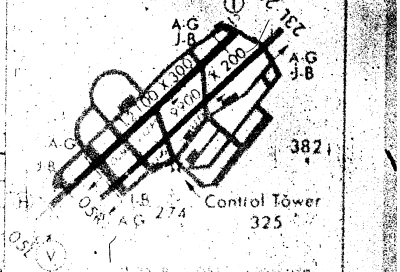
Left turn remain within 30 NM

LINDA
RAD-270
15 NM
12,000
270°
FL 200
RAD-250
20 NM
RAD-235
13 NM
4000
095°
10 NM
GATE
MM
TACAN
054°
2000
1500
054°
Glide Slope 2.50°
0.3
3.0 NM

MISSED APPROACH
At Min Alt climb on 054° to 2000.
2.0 NM after TACAN right turn intercept RAD-140 and hold.

FIELD ELEV 142

CAUTION
Construction on twys.



LANDING MINIMA			
Str-in-ILS	342' MSL	200-½ or RVR 24	
Str-in-TACAN	400 MSL	300-1	
✲Circling	800 MSL	700-1	

✲Circling to East only

TACAN/ILS-RWY 05-2 26°21'N-127°46'E

KADENA, OKINAWA I., RYUKYU ISLANDS
KADENA AB

101

KADENA

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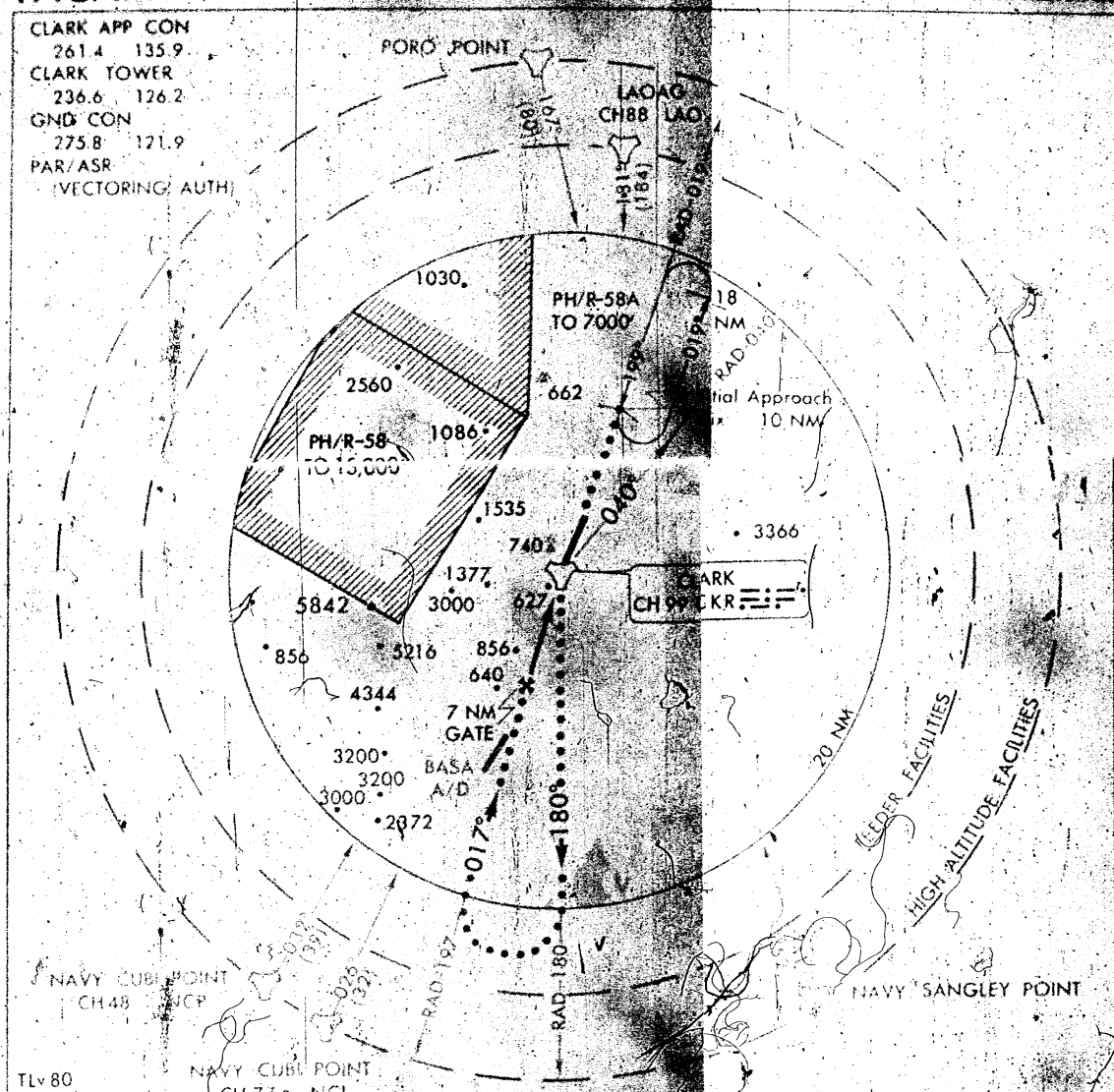
CLARK

TACAN-1

JAL-1880 (USAF)

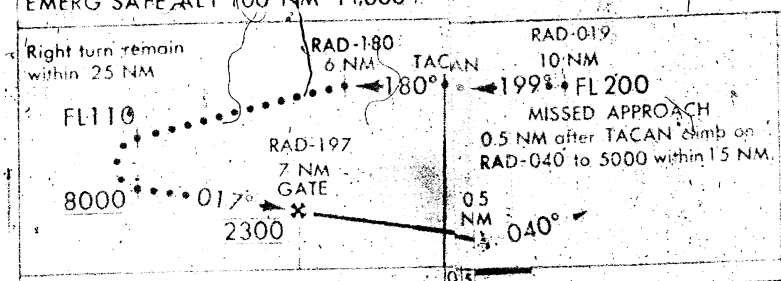
CLARK AB
LUZON I., REP. OF THE PHILIPPINES

CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.2
GND CON
275.8 121.9
PAR/ASR
(VECTORING AUTH)

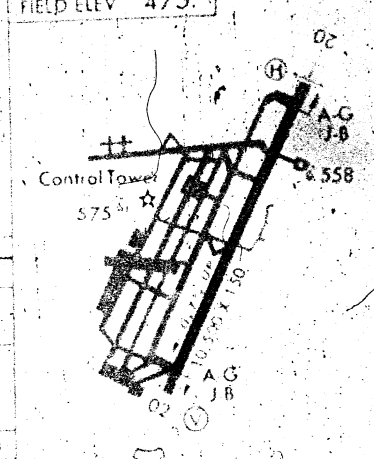


TLv 80
TA 7000
EMERG SAFE ALT 100 NM 11,600

MIN SAFE ALT 25 NM 6800



FIELD ELEV 475.



LANDING MINIMA

Straight-in	1000 MSL	500-1
Circling *		

* Circling to East only

TACAN to Missed Approach 0.5 NM

Knots	120	140	160	180	200
Min : Sec	0.15	0.13	0.12	0.10	0.09

15°11'N–120°33'E

LUZON I., REP. OF THE PHILIPPINES
CLARK AB

TACAN-1

CLARK

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CLARK

TACAN-2/ILS

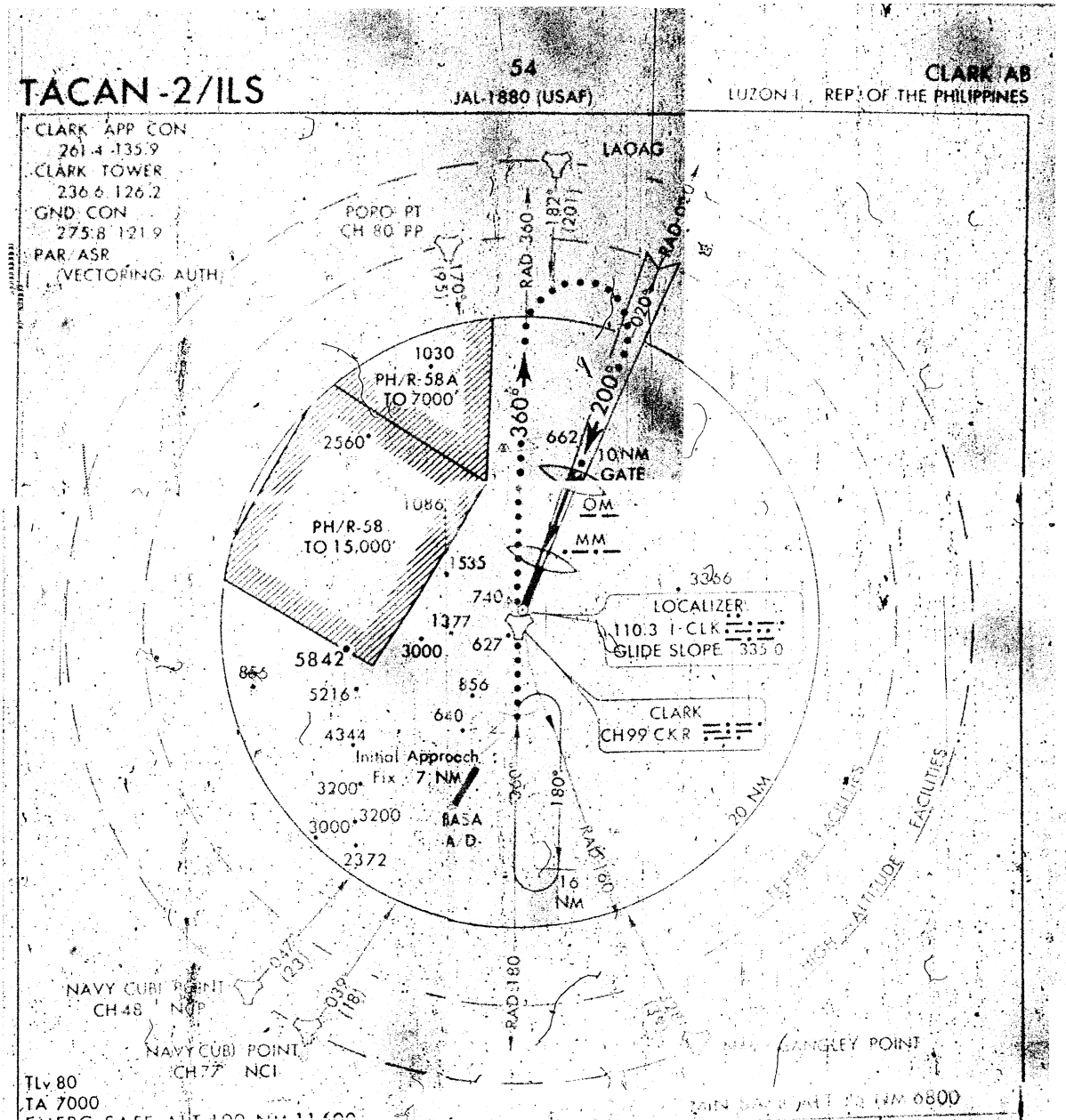
54

JAL-1880 (USAF)

CLARK AB

LUZON I., REP. OF THE PHILIPPINES

CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.2
GND CON
275.8 121.9
PAR ASR
(VECTORING AUTH)



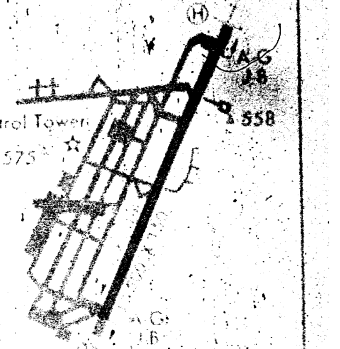
Tlv 80
TA 7000
EMERG SAFE ALT 100 NM 11,600

MIN SAFE ALT 25 NM 6800

RAD-180
7 NM TACAN
FL 200
360°
RAD-360
8 NM
360°
FL110
Right turn remain within 25 NM
10 NM
GATE
MM
OM
2.5 NM
200°
2300
Glide Slope 2.50
160°
1 2 5.7 NM

MISSED APPROACH:
2.5 NM prior to TACAN, climb on RAD 160 to 5000 within 15 NM.

FIELD ELEV 475



LANDING MINIMA		
Str-in-ILS	700 MSL	200-1
Str-in-TACAN	900 MSL	400-1
Circling *	1000 MSL	600-1
Str-in-LOC	800 MSL	300-1

*Circling-to East only.

15°11'N-120°33'E

LUZON I., REP. OF THE PHILIPPINES

CLARK AB

TACAN-2/ILS

CLARK

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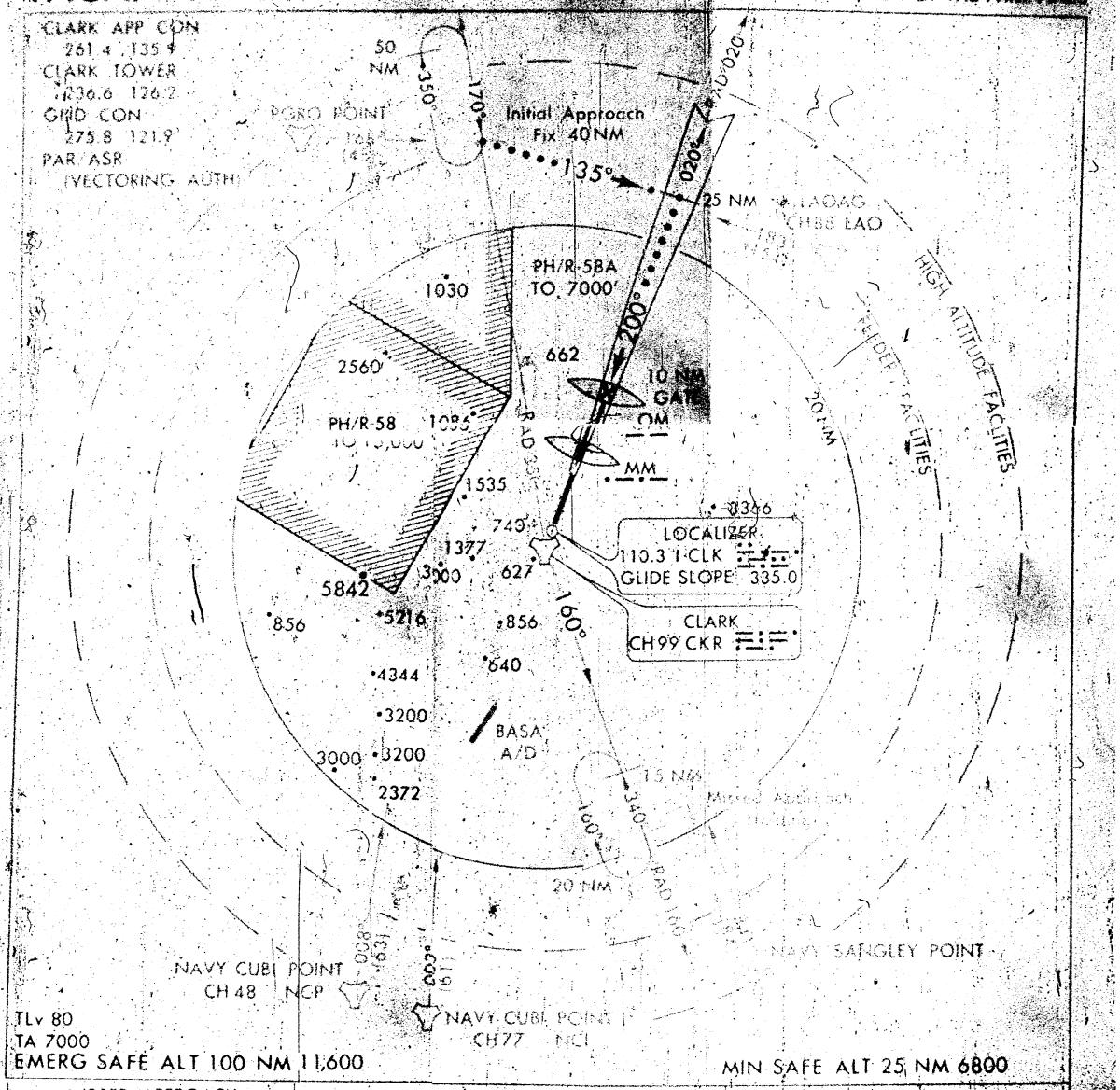
CLARK

TACAN-3/ILS

JAL-1880 USAF

CLARK AB
LUZON I., REP. OF THE PHILIPPINES

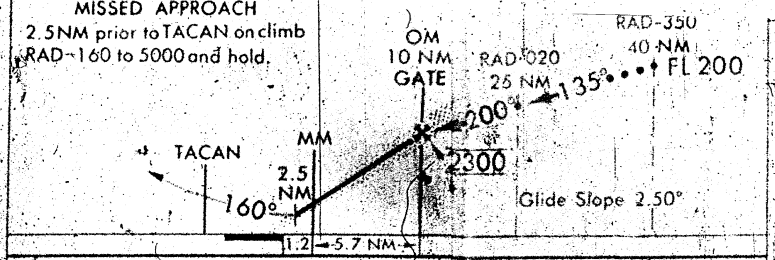
CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.2
GND CON
275.8 121.9
PAR ASR
(VECTORING AUTH)



TLv 80
TA 7000
EMERG SAFE ALT 100 NM 11,600

MIN SAFE ALT 25 NM 6800

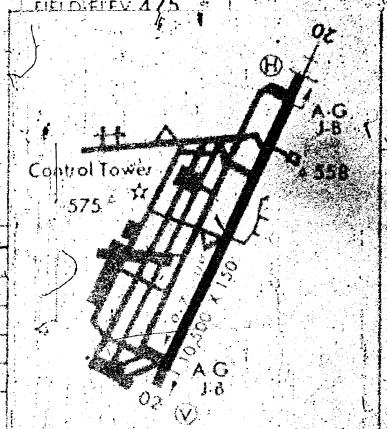
MISSED APPROACH
2.5NM prior to TACAN on climb
RAD-160 to 5000 and hold.



LANDING MINIMA		
Str-in-ILS	700 MSL	200-½
Str-in-TACAN	900 MSL	400-1
Circling ✲	1000 MSL	500-1
Str-in-LOC	800 MSL	300-1

✲ Circling to East only.

FIELD ELEV 475



TACAN-3/ILS

15°11'N-120°33'E

55

LUZON I., REP. OF THE PHILIPPINES
CLARK AB

CLARK

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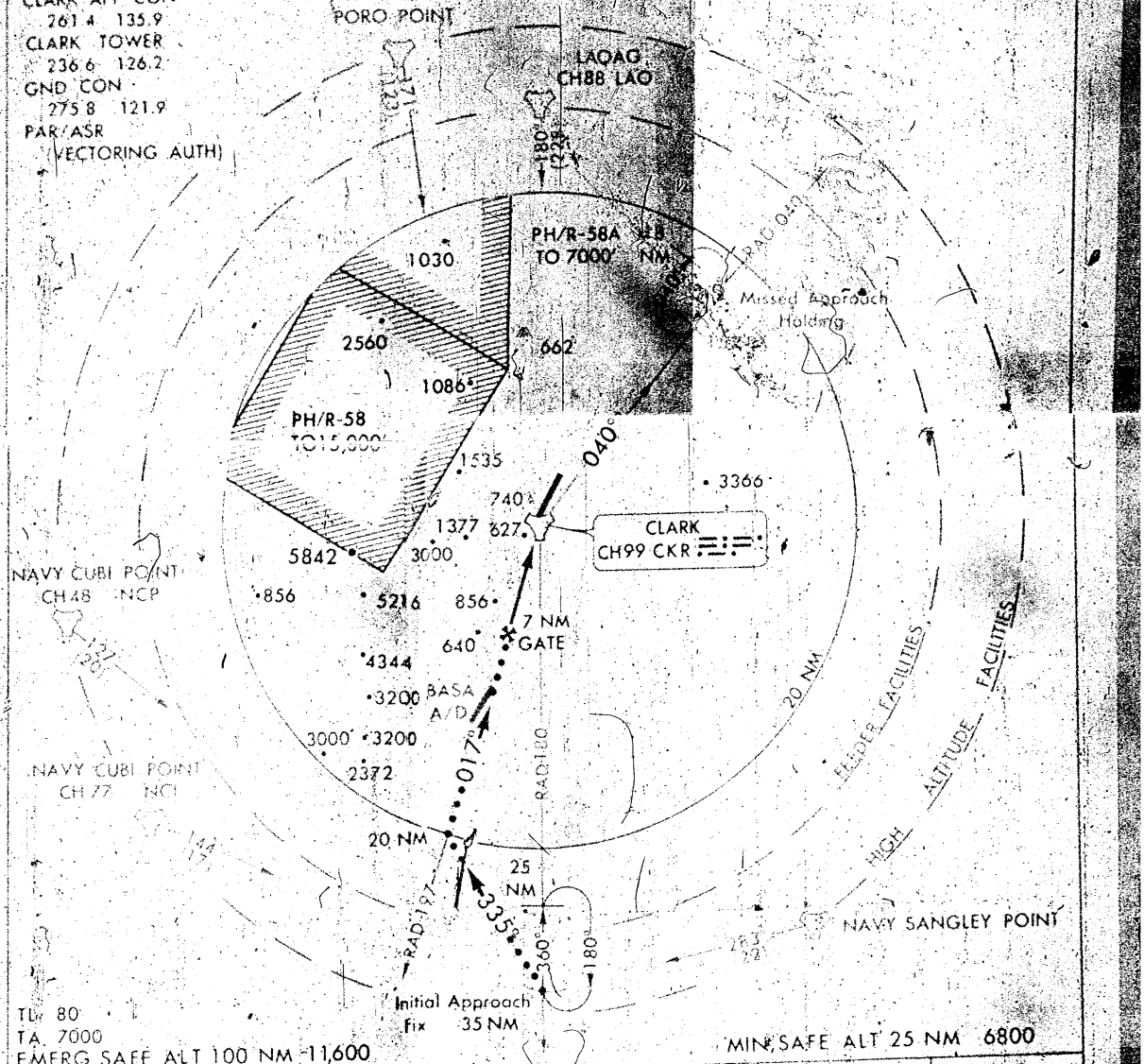
CLARK

TACAN-4

50
JAL-1880 (USAF)

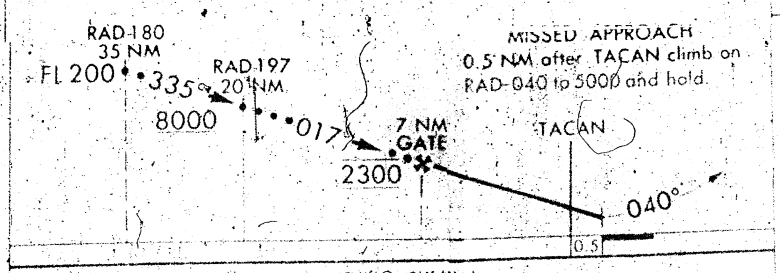
CLARK A B
LUZON I., REP. OF THE PHILIPPINES

CLARK APP CON
261.4 135.9
CLARK TOWER
236.6 126.2
GND CON
275.8 121.9
PAR/ASR
(VECTORING AUTH)



TL 80
TA 7000
EMERG SAFE ALT 100 NM 11,600

MIN SAFE ALT 25 NM 6800



MISSED APPROACH
0.5 NM after TACAN climb on RAD-040 to 5000 and hold.

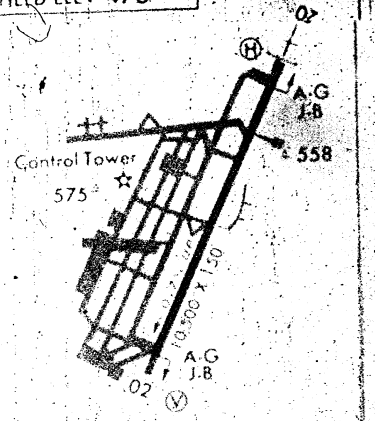
LANDING MINIMA		
Straight-in	1000 MSL	500-1
Circling*		

* Circling to East only

TACAN to Missed Approach 0.5 NM

Knots	120	140	160	180	200
Min:Sec	0:15	0:13	0:12	0:10	0:09

FIELD ELEV 475



15°11'N–120°33'E

LUZON I., REP. OF THE PHILIPPINES
CLARK A B

TACAN-4

CLARK

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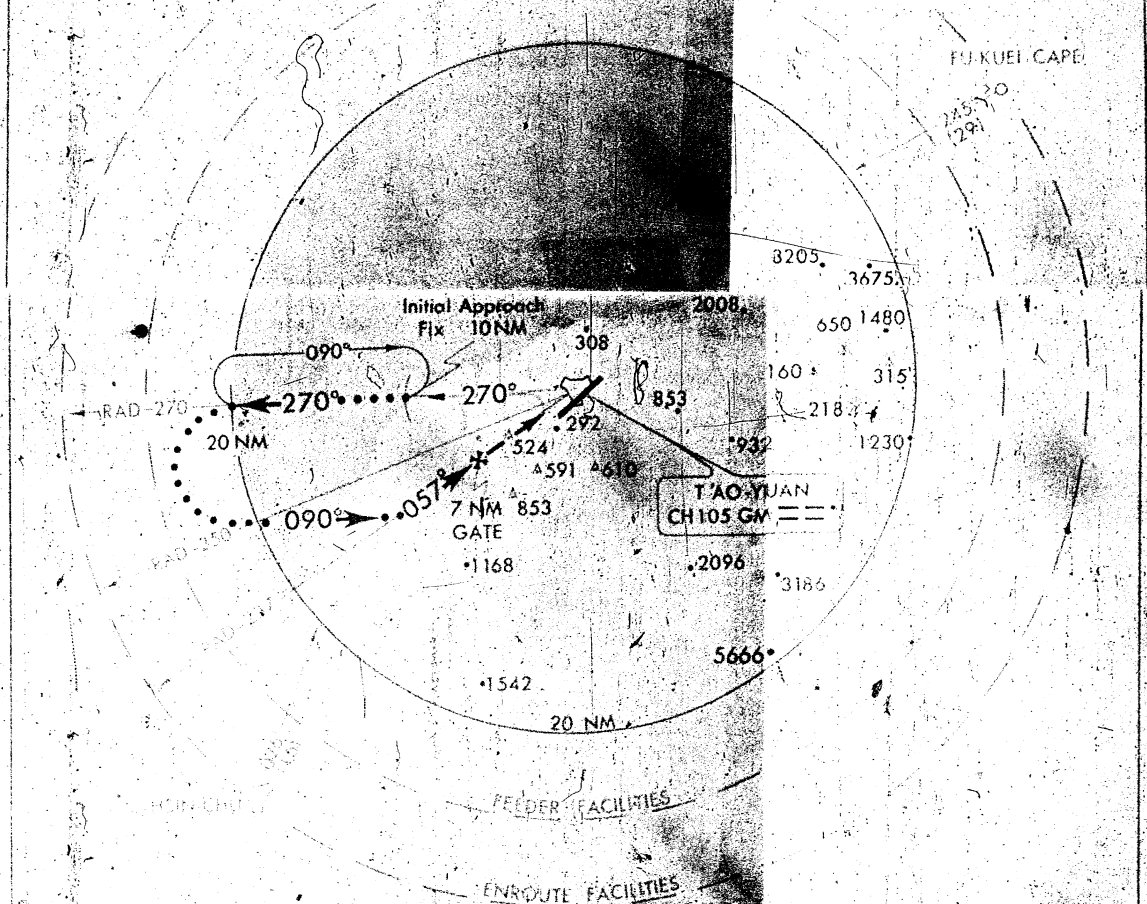
TAOYUAN

TACAN

202
JAL 2224 (USAF)

T'AO-YUAN A/D
T'AO YUAN, TAIWAN, REP OF CHINA

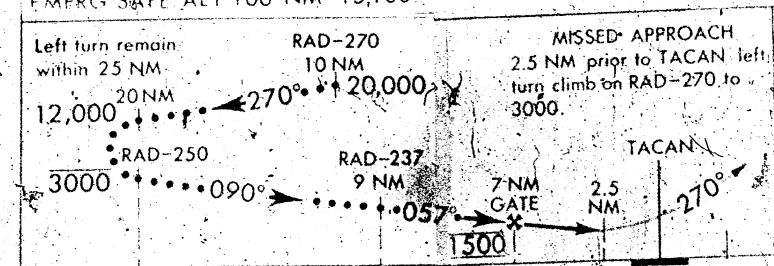
T'AI PEI APP CON
363.8 119.7
GM TOWER
236.6 126.18
GND CON
275.8
PAR/ASR



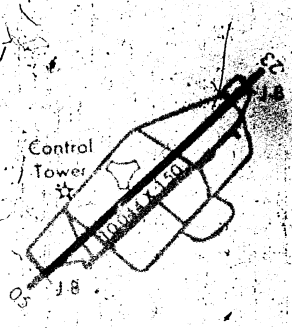
TA 18,000
EMERG SAFE ALT 100 NM 15,100

MIN SAFE ALT 25 NM 8000

FIELD ELEV 147



MISSED APPROACH
2.5 NM prior to TACAN left turn climb on RAD-270 to 3000.



LANDING MINIMA		
Straight-in	500 MSL	400-1
Circling ✲	600 MSL	500-1

✲ Circling to Northwest only.

TACAN

25°03'N-121°14'E

T'AO-YUAN, TAIWAN, REP OF CHINA
T'AO-YUAN A/D

TAOYUAN

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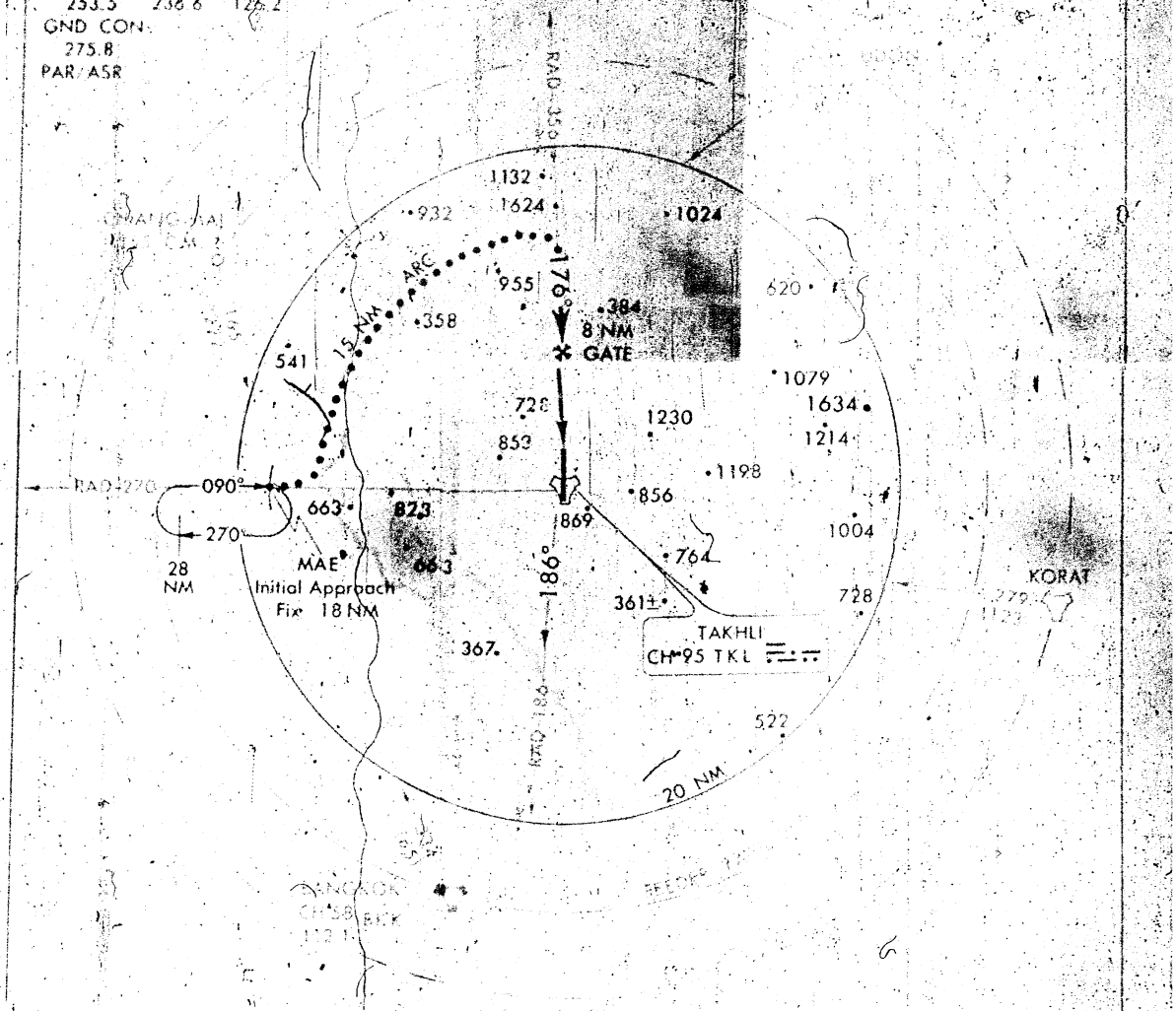
TAKHLI

TACAN-RWY 18-1

194
JAL 2627 (RTAF)

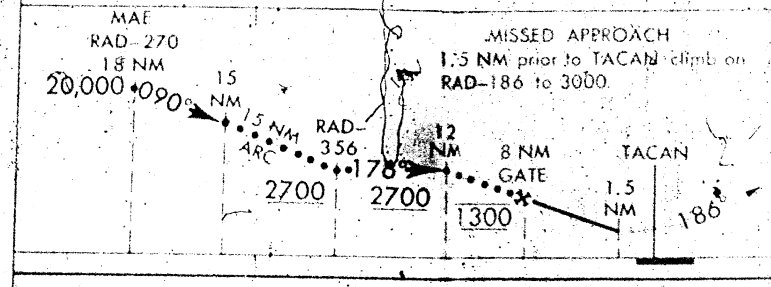
TAKHLI A/D
TAKHLI, THAILAND

TAKHLI APP CON
270.6 363.8 118.1
TAKHLI TOWER
253.5 236.6 126.2
GND CON
275.8
PAR/ASR



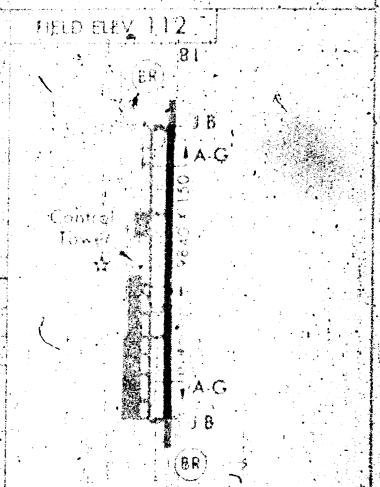
EMERG. SAFE ALT 100 NM 8200

MIN SAFE ALT 25 NM 8700



MISSED APPROACH
1.5 NM prior to TACAN climb on RAD-186 to 3000.

FIELD ELEV 112



LANDING MINIMA		
Straight-in	400 MSL	300-1
Circling	NOT AUTHORIZED	

TACAN-RWY 18-1

15°16'N-100°18'E

TAKHLI, THAILAND
TAKHLI A/D

TAKHLI

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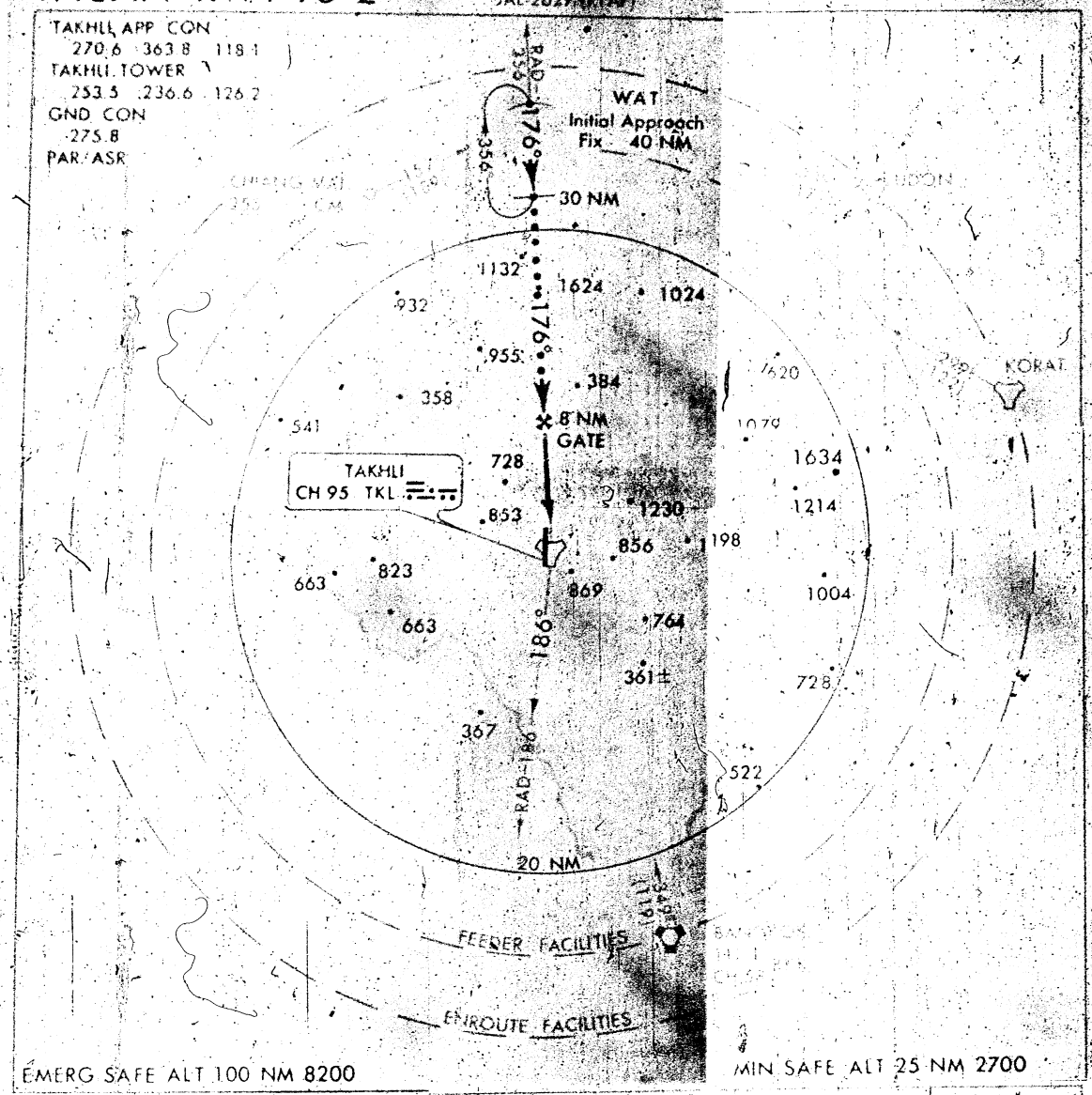
TAKHLI

TACAN-RWY 18-2

JAL 2627 (MTAF)

TAKHLI A/D
TAKHLI, THAILAND

TAKHLI APP CON
270.6 363.8 118.1
TAKHLI TOWER
253.5 236.6 126.2
GND CON
275.8
PAR/ASR



EMERG SAFE ALT 100 NM 8200

MIN SAFE ALT 25 NM 2700

WAT
RAD-356
40 NM
20,000
176°
12 NM
2700
8 NM GATE
1300
TACAN
1.5 NM
186°

MISSED APPROACH
1.5 NM prior to TACAN climb on RAD-186 to 3000

LANDING MINIMA		
Straight-in	400 MSL	300-1
Circling	NOT AUTHORIZED	

FIELD ELEV 142
81
BR
J-B
A-G
Control Tower
9840 X 150
A-G
J-B
BR
36

TACAN-RWY 18-2

15°16'N-100°18'E
195

TAKHLI, THAILAND
TAKHLI A/D

TAKHLI

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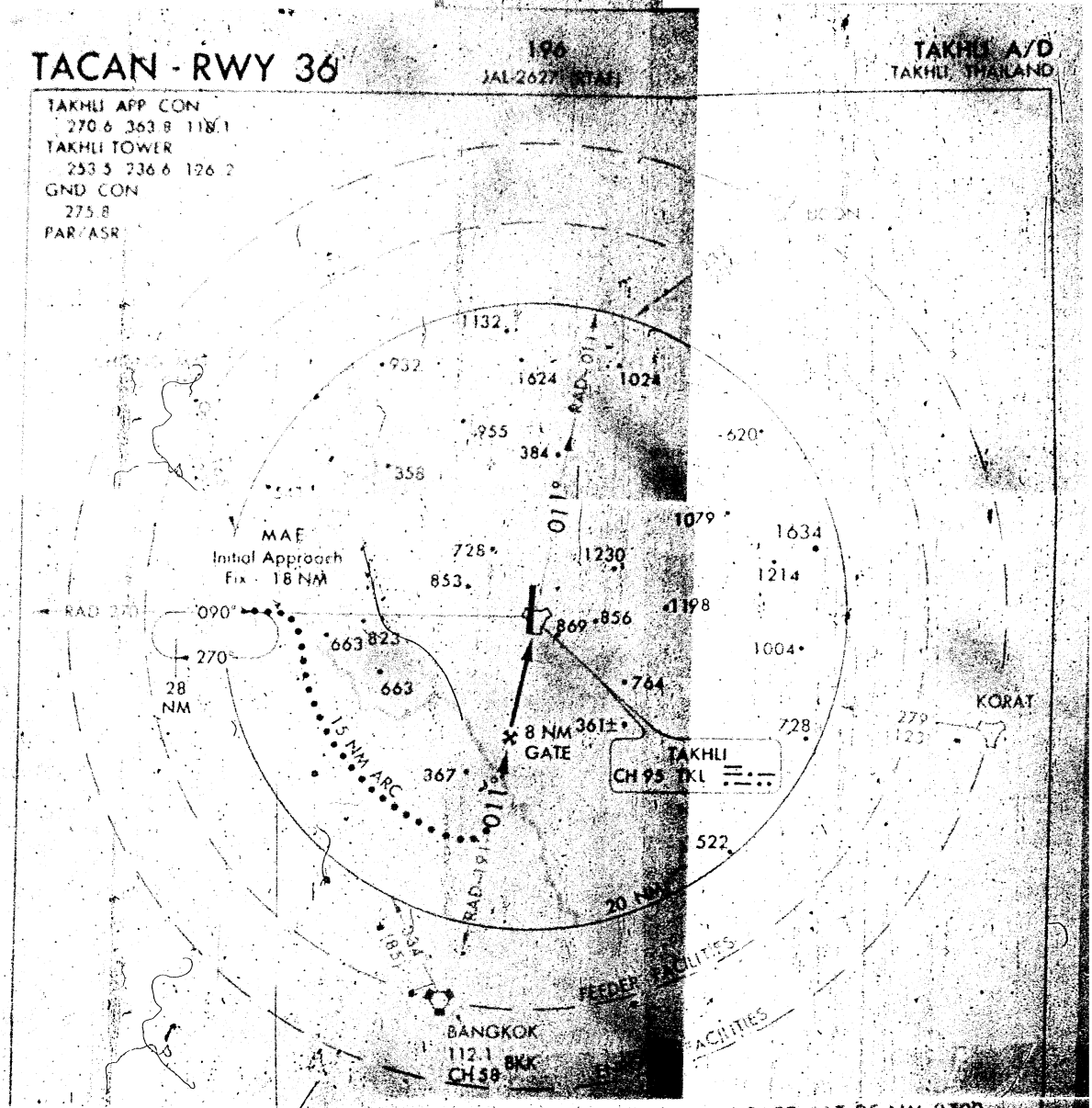
TAKHLI

TACAN - RWY 36

196
JAL-2627 (STAR)

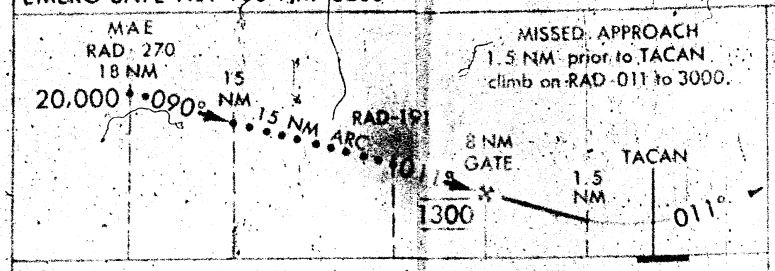
TAKHLI A/D
TAKHLI, THAILAND

TAKHLI APP CON
270.6 363.8 118.1
TAKHLI TOWER
253.5 236.6 126.2
GND CON
275.8
PAR/ASR



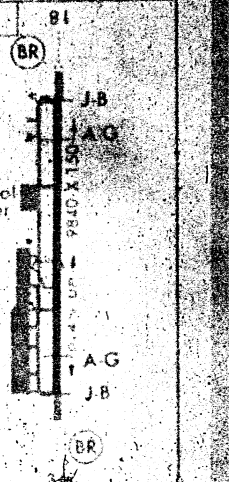
EMERG SAFE ALT 100 NM 8200

MIN SAFE ALT 25 NM 2700



MISSED APPROACH
1.5 NM prior to TACAN
climb on RAD 011 to 3000.

FIELD ELEV 112



LANDING MINIMA		
Straight in	400 MSL	300-1
Circling	NOT AUTHORIZED	

TACAN-RWY 36

15°16'N-100°18'E

TAKHLI, THAILAND
TAKHLI A/D

TAKHLI

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END
BX 6706
ROUTE 14
30 JUNE 67
FS # 10

THE END

ROUTE

14
BX 6706

FS # 10
30 JUNE 67

STRIP

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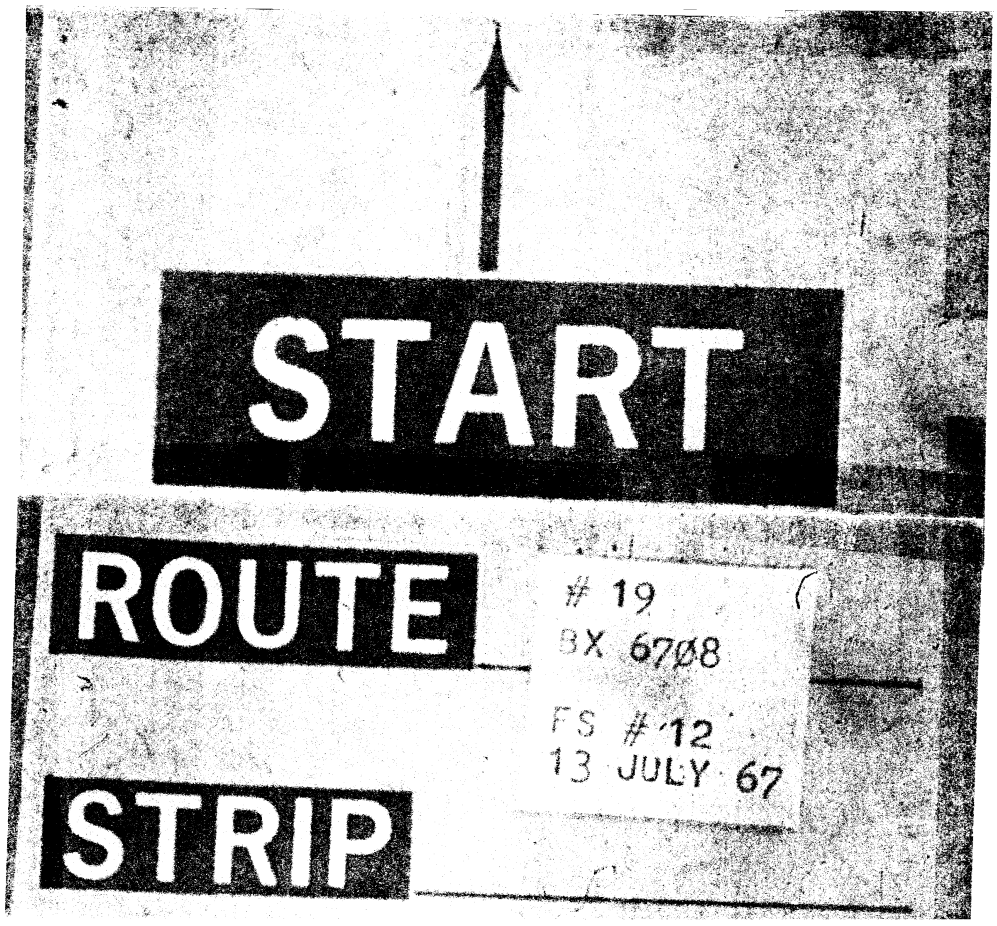
START

BX 6708

ROUTE #19

FS #12

13 JULY 67



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END
BY 6708
ROUTE #19
FS #12
13 JULY 67

THE END

ROUTE

#19
BX 6708

FS #12
13 JULY 67

STRIP

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